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March 5, 2013

VA New Jersey Healthcare System
Building 10, 2nd Floor
151 Knollcroft Road
Lyons, NJ 07939

Attn: Mr. Gary Bohner, COTR

Re: Stormwater Improvements
Project number 561-A4-12-108
FE Project 11-348

Dear Mr. Bohner,

Please find attached the following documents regarding the above referenced project:

- 1 revised site plan of 10-378 CLC Phase 3
- 1 revised site plan of 11-348 Stormwater Improvements
- 1 copy of swale calculations
- 1 copy of State Soil Conservation Committee Hydraulic and Hydrologic Database Summary Form

Below are the updates that were made to the plans per the comments by the Somerset-Union Soil Conservation District Manager, Frank Calo.

1. Included construction phasing sequence with the stormwater ponds being constructed before the future building additions. The proposed construction sequencing is included in this letter.
2. Showed erosion and sediment control for each phase. CLC phase 3 is attached and CLC phase 2 has been provided by the VA.
3. Showed sediment barriers around stockpiles, if any. Stockpiles for pond construction are shown on drawing WC-GS-101.
4. Showed construction entrances both for the ponds and for the underground pipe construction downstream. See drawings WC-GS-101, 102 and 103.
5. Showed calculations for drainage swales into 1st pond and between 1st and 2nd pond. See attached.
6. Showed width of drainage swales. See drawing WC-GS-101.

7. Showed stabilization at swale outlet in 2nd pond or discharge into bottom of hardened pond.
See drawing WC-GS-101.
8. Showed sediment barriers on the downhill side of the pipe installed downstream of the pond.
See drawing WC-GS-103.
9. Showed size of existing rip rap at point of discharge. See drawing WC-GS-103.

If you have any further questions, please do not hesitate to ask.

Thank you for your assistance.

Sincerely,

Amador C. Laput
Project Manager

attachments

PROPOSED CONSTRUCTION SEQUENCING FOR VA LYONS

For the purposes of providing proper storm water management , and in compliance with the storm water requirements set forth by the Soil Conservation District of Somerset County and the State of New Jersey, while also providing for proper sequential co-ordination between the following VA project numbers:

561-235 (Phase II construction, improvements to VA Bldg# 135)

561-236-A&B (Phase III construction, improvements to VA Bldg# 135)

561-CSI-136 (West Campus storm water improvements)

The following project phasing sequence shall be followed and adhered to by all entities contracted to perform the above referenced projects.

- 1) Prior to any surface disturbance for any step listed within this construction sequencing, all appropriate erosion and sediment control measures shall be installed, maintained and inspected as per the plan set for that area(s) and shall remain until permanent stabilization of the disturbed area has been achieved, where permanent stabilization is defined as the point in time when 80% vegetative cover has been achieved.
- 2) Simultaneously with steps #3 thru #12 listed below, construction of the Phase II building addition project will commence, beginning with Installation of all piping and drainage structure improvements, and site grading as required to provide finished surface in the area surrounding the Phase II building addition, as shown on the plans set for VA project# 561-235. All proposed storm water improvements shown on this plan set shall be completed, with the exception of improvements to the existing storm water pond, improvements to which shall be performed in the steps outlined below for VA projects 561-CSI-136 & 561-236-A&B.
- 3) Construct 1689' storm water pipe line from existing storm drainage ditch to the location of Pond #2 outlet structure, including installation of the outlet structure as shown in the plan set for VA project# 561-CSI-136.

- 4) Construct storm water pond as shown on Phase III construction plans (VA project# 561-236-A&B) and identified as "Pond #1" on the Storm Water Improvement plans (VA project# 561-CSI-136).

Pond construction shall consist of:

- Excavation of existing pond to elevations as shown on the plan sets for VA project# 561-236-A&B & VA project# 561-CSI-136 where grading conflicts exist between the plan sets, VA project# 561-CSI-136 shall rule.
- Excavation cut of approx 863 cubic yards from Pond #1 shall be appropriately placed for the construction of Pond #2 as defined in plan set for VA Project# 561-CSI-136. Placed fill shall be compacted to 95% proctor density, in lifts not to exceed 8".
- Install Pond #1 outlet structure with outlet pipe from structure to point where it will drain into Pond #2 as shown in plan set 561-CSI-136 , and provide temporary RCP piping from that point to the temporary inlet on the side Pond #2 outlet structure. RCP piping shall be kept securely in place by means of gravel berms with a max slope of 2h:1v with a minimum height of 1/2 pipe diameter along both sides of pipe for the entire pipe length.
- Install stand pipe on lowest orifice for sediment control during pond construction. dewatering techniques shall be employed as required to allow construction to progress.
- Excavate and remove existing 12" RCP outlet pipe from pond and dispose of properly.
- Cut back existing storm pipes draining into Pond #1 to be flush with new pond wall locations, and install flared end sections.

- 5) Re-grade the "north hill" area, located north west of the Community Living Center (VA Bldg # 135) in preparation for Phase III A & B construction, as shown on Phase III plan set for VA project# 561-236-A&B. Grading will require a cut of approximately 250 cubic yards, which shall be appropriately placed for the construction of Pond #2 as shown on the plan set for VA project# 561-CSI-136.
- 6) Re-grade area west of VA Bldg#135 and install 4' wide drainage swale as shown on plan set for VA project# 561-236-A&B.
- 7) Continuation of construction of Pond #2. Excavation cut of approximately 1140 cubic yards will provide the remaining fill required for the construction of Pond #2.
- 8) Upon 95% completion of Pond #2, 95% Completion being defined at the point in time when all the where all the following conditions have been met:
 - Grading of the interior and exterior slopes, and the floor of the pond have been completed. (With the exception of the area containing the temporary 24" RCP storm pipe.)
 - All graded surfaces mentioned above have reached permanent stabilization, with permanent stabilization being defined as having attained a minimum of 80% vegetative cover.

The temporary 24" RCP storm pipe shall then be removed, the flared end section & rip-rap outlet protection shall be installed at the outlet from Pond #1 into Pond #2 (as shown in the plan set for VA project# 561-CSI-136), and the remaining disturbed areas within Pond #2 shall be finely graded and stabilized.

- 9) Phase II building construction, wing "B", as shown in the plan set for VA project# 561-235.

- 10) Phase III construction of storm water improvements along the north hill area and along swale to the west of VA Bldg# 135, as shown on the plan set for VA project# 561-236-A&B
- 11) Phase III building construction, wings C & D, steam tunnels, electrical trenching, etc. as shown of the plan set for VA project# 561-236 A&B.
- 12) Final site grading and stabilization of all disturbed areas, and removal of all erosion& sediment control measures upon permanent stabilization with a minimum of 80% vegetative cover.