



**Department of Energy**  
West Valley Demonstration Project  
10282 Rock Springs Road  
West Valley, NY 14171-9799

September 27, 2018

Mr. Scott A. Anderson  
President & General Manager  
CH2M HILL BWXT West Valley, LLC  
West Valley Demonstration Project  
10282 Rock Springs Rd  
West Valley, NY 14171-9799

ATTENTION: J. Williams, Regulatory Strategy, AC-EA

SUBJECT: Environmental Checklist WVDP-2018-02, "NRC-Licensed Disposal Area (NDA) Toe Armoring, Liquid Pretreatment System Building (LPS) Removal, and Installation of a Geomembrane Cap on the LPS Footprint"

REFERENCE: Letter WD:2018:0809 (379144), S. A. Anderson to A. M. Cooney, "Contract No. DE-EM0001529, Section J-3, Item 105, NEPA Documentation, Transmittal of Environmental Checklist WVDP-2018-02, NRC-Licensed Disposal Area (NDA) Toe Armoring, Liquid Pretreatment System Building (LPS) Removal, and Installation of a Geomembrane Cap on the LPS Footprint," dated August 29, 2018

Dear Mr. Anderson:

I have reviewed the subject Environmental Checklist and agree that the actions described therein are categorically excluded per Title 10, Code of Federal Regulations (CFR) Part 1021, as amended, Subpart D, Appendix B, B1.3, "Routine Maintenance" for the toe armoring, B1.23, "Demolition and disposal of buildings" for the LPS removal and B6.1, "Cleanup actions" for the installation of the Geomembrane Cap as detailed in the attachment to the environmental checklist. Enclosed is a signed environmental checklist form to that effect.

The contents of this correspondence are not intended to impact or modify contract scope and/or cost. If you have any questions, please contact me on Extension 4007.

Sincerely,

Martin P. Krentz  
National Environmental Policy Act Compliance Officer  
West Valley Demonstration Project

Enclosure: Signed Environmental Checklist

cc: J. J. Hoch, CHBWV, WV-10PLEX, w/enc.  
D. P. Klenk, CHBWV, WV-10PLEX, w/enc.  
M. P. Krentz, DOE-WVDP, AC-DOE, w/enc.  
M. N. Maloney, DOE-WVDP, AC-DOE, w/enc.  
D. W. Sullivan, DOE-WVDP, AC-DOE, w/enc.

MPK:379306 - 451.4

**Attachment**

**Environmental Checklist WVDP-2018-02  
NRC-Licensed Disposal Area (NDA) Toe Armoring,  
Liquid Pretreatment System Building (LPS) Removal, and  
Installation of a Geomembrane Cap on the LPS Footprint**

**Department of Energy  
West Valley Demonstration Project (DOE-WVDP)**

**ENVIRONMENTAL CHECKLIST**

|  |  |
|--|--|
| <b>Project/Activity Title:</b><br>NRC-Licensed Disposal Area (NDA) Toe Armoring, Liquid Pretreatment System Building (LPS) Removal, and Installation of a Geomembrane Cap on the LPS Footprint | <b>NEPA ID Number:</b> WVDP-2018-02 Rev. 0<br><b>Date:</b> August 28, 2018 |
| <b>Contractor Project Manager:</b><br>Linda M. Michalczak  | <b>Phone Number:</b><br>716-942-4907                                       |
| <b>Contractor NEPA Coordinator:</b><br>Jerald J. Hoch  | <b>Phone Number:</b><br>716-942-2409                                       |
| <b>DOE-WVDP NEPA Document Manager:</b><br>Martin P. Krentz   | <b>Phone Number:</b><br>716-942-4007                                       |

**A. BRIEF PROJECT/ACTIVITY DESCRIPTION:** Attach a detailed description or statement of work.

**B. SOURCES OF IMPACT:** Would the action involve, generate, or result in changes to any of the following:

|                            | YES | NO |  | YES | NO |
|----------------------------|-----|----|--|-----|----|
| 1. Air Emissions           | X   |    | 12. Water Use/Diversion                | X   |    |
| 2. Liquid Effluents        | X   |    | 13. Water Treatment                    |     | X  |
| 3. Solid Waste             | X   |    | 14. Water Course Modification          | X   |    |
| 4. Radioactive Waste/Soil  | X   |    | 15. Radiation/Toxic Chemical Exposures | X   |    |
| 5. Hazardous Waste         | X   |    | 16. Pesticide/Herbicide Use            |     | X  |
| 6. Mixed Waste             |     | X  | 17. High Energy Source/Explosives      |     | X  |
| 7. Chemical Storage/Use    | X   |    | 18. Transportation                     | X   |    |
| 8. Petroleum Storage/Use   | X   |    | 19. Noise Level                        | X   |    |
| 9. Asbestos                |     | X  | 20. Workforce Adjustment               |     | X  |
| 10. Utilities              |     | X  | 21. Other                              |     | X  |
| 11. Clearing or Excavation | X   |    |  |     |    |

In an attachment, qualify and explain each question that you have specifically answered "YES."

**C. CATEGORY EVALUATION CRITERIA:** Would the proposed action:

|   | YES | NO |
|---|-----|----|
| 1. Take place in an area of previous or ongoing disturbance?  | X   |    |
| 2. Create hazardous, radioactive, or mixed waste for which no disposal is available?  |     | X  |
| 3. Impact a RCRA-regulated unit or facility?  | X   |    |
| 4. Force a low income or ethnic minority population to shoulder a disproportionate share of the negative environmental impacts of pollution or environmental hazards because of a lack of political or economic strength?   |     | X  |
| 5. Involve air emissions and be located in an air pollutant non-attainment or maintenance area for any criteria pollutants?   |     | X  |
| 6. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders?   |     | X  |
| 7. Disturb hazardous substances, pollutants, or contaminants that pre-exist in the environment such that there would be uncontrolled or unpermitted releases?   |     | X  |
| 8. Require siting, construction, or major expansion of a waste storage, disposal recovery, or treatment facilities, but may include such categorically-excluded facilities?   |     | X  |
| 9. Adversely affect environmentally sensitive resources including, but not limited to: structures of archeological, historic or architectural significance; threatened or endangered species or their habitat; floodplains or wetlands; wildlife refuges, agricultural lands or vital water resources (e.g., sole-source aquifers)?   |     | X  |
| 10. Involve extraordinary circumstances? As specified at 10 CFR § 1021.410(b)(2), extraordinary circumstances are unique situations presented by specific proposed actions, such as scientific controversy about the environmental effects of the action, uncertain effects or effects involving unique or unknown risks, or unresolved conflicts concerning alternate uses of available resources within the meaning of Section 102(2)(E) of NEPA [42 U.S.C. 4332(2)]. |     | X  |
| 11. Be "connected" to other actions with potentially significant impacts, related to other proposed actions with cumulatively significant impacts, and precluded by 40 CFR § 1506.1 or 10 CFR § 1021.211?   |     | X  |

In an attachment, qualify and explain each question that you have specifically answered "YES."

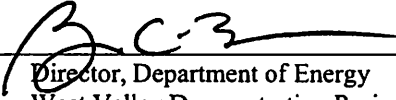
**Department of Energy  
West Valley Demonstration Project (DOE-WVDP)**

**ENVIRONMENTAL CHECKLIST**


**D. RECOMMENDATION AND DETERMINATION:**

**DOE-WVDP Director's Recommendation:** I find and recommend that this proposed action meets the criteria specified in 10 CFR Part 1021, Subpart D, and/or DOE Policy and Guidance for the following:

- Categorical Exclusions (Appendix B, Class of Action B1.3, Routine Maintenance, B1.23, Demolition and disposal of buildings, and B6.1 Cleanup actions)
- Actions Within the Scope of Existing NEPA Documentation NEPA Document ID Number \_\_\_\_\_)
- Ongoing Operations (Standard Operating Procedure OH-6.1.01, Rev. 1, Section 5.2)

Signature:  Date 09-26-2018  
Director, Department of Energy  
West Valley Demonstration Project (DOE-WVDP)

**DOE-WVDP NEPA Compliance Officer's Determination:** Based on my review of the attached information concerning this proposed action, as the WVDP NEPA Compliance Officer, I have determined that the proposed action fits within the specified class of actions, that the other regulatory requirements identified in Section C are met, and that this proposed action proceed without further NEPA review.

Signature:  Date 9/24/18  
DOE-WVDP NEPA Compliance Officer,  
West Valley Demonstration Project

**OR**

- Environmental Assessments (Appendix C, Class of Action \_\_\_\_\_; or Action not listed in Subpart D)
- Environmental Impact Statements (Appendix D, Class of Action \_\_\_\_\_)
- Interim Actions (40 CFR Part 1506.1 and 10 CFR Part 1021.211)
- Integrated Documentation for CERCLA/RCRA Actions
- Variances (Emergency Action, 40 CFR Part 1506.11 and 10 CFR Part 1021.34)

**DOE-WVDP NEPA Compliance Officer's Concurrence:** I concur with the recommendation that this proposed action fits within the specified class of actions.

Signature: \_\_\_\_\_ Date \_\_\_\_\_  
DOE-WVDP NEPA Compliance Officer,  
West Valley Demonstration Project

**DOE-WVDP Manager's Determination:** Based on my review of the attached information concerning this proposed action, as the Director of the West Valley Demonstration Project (DOE Order 451.1B, Section 5.a.), I have determined that the level of documentation recommended for the proposed action is appropriate.

Signature: \_\_\_\_\_ Date \_\_\_\_\_  
Director, Department of Energy  
West Valley Demonstration Project (DOE-WVDP)

## SECTION A. BRIEF PROJECT/ACTIVITY DESCRIPTION

### BACKGROUND

From 1966 to 1972, Nuclear Fuel Services, Inc. (NFS) operated a nuclear fuel reprocessing plant at the Western New York Nuclear Service Center (WNYNSC) near West Valley, New York (Figures 1 and 2). The plant reclaimed uranium and plutonium from spent nuclear fuel. After operating the fuel reprocessing facility for six years, NFS halted operations to make modifications to increase the plant's reprocessing capacity, reduce worker doses, and reduce radioactive effluents. During this period, new regulatory requirements were issued related to earthquake and tornado protection, and waste management requirements. NFS concluded that it would not be economically viable to continue the reprocessing operation at West Valley. In 1976, NFS informed New York State that it was withdrawing from the reprocessing business and intended to turn the West Valley facility and the two disposal areas over to New York State.

At that time, the reprocessing facility contained 750 spent fuel assemblies that had not been reprocessed, 600,000 gallons of liquid High Level Radioactive Waste (HLW) stored in two steel tanks, the highly contaminated Main Plant Process Building, and almost three million cubic feet of radioactive waste buried in the two disposal areas.

In 1980, Congress passed the West Valley Demonstration Project (WVDP) Act (Public Law 96-368), which directed the U. S. Department of Energy (DOE) to do the following: (1) solidify the HLW at the WNYNSC in a form suitable for transportation and disposal; (2) develop containers for the HLW that are suitable for permanent disposal; (3) transport the solidified HLW, in accordance with applicable provisions of law, to an appropriate Federal repository for permanent disposal; (4) in accordance with applicable licensing requirements, dispose of low-level radioactive waste (LLW) and transuranic (TRU) waste produced as a result of solidifying the HLW; and (5) decontaminate and decommission: (a) the tanks and other facilities of the WNYNSC in which the HLW solidified under the Project is stored; (b) the facilities used in the solidification of the waste; and (c) any material and hardware used in connection with the Project, in accordance with requirements that the U.S. Nuclear Regulatory Commission (NRC) prescribes.

In 1982, a Final Environmental Impact Statement (EIS) (DOE/EIS-0081) and associated Record of Decision (ROD) were issued for the actions that DOE proposed to satisfy the first two requirements of the WVDP Act. During the initial phase of work performed under EIS-0081, which was completed in September 2002, the HLW was immobilized in borosilicate glass through vitrification. The canisters of immobilized HLW were stored on-site in the High Level Waste Interim Storage Facility (the former Chemical Process Cell) and have been relocated to the HLW Cask Storage Pad for temporary storage until DOE authorizes their removal. In 1993 and 1998, the DOE prepared Supplement Analyses (DOE-EIS-025 and WVDP-321, respectively) of the 1982 Final EIS to re-examine on-going HLW solidification activities as well as other refinements to the actions originally evaluated in the EIS. As a result of both analyses, DOE concluded that no environmentally relevant or substantial changes in Project scope had occurred, that no new circumstances or relevant information existed, and that the environmental analyses performed for the 1982 EIS were still valid.

After solidification of liquid and sludge was completed in September 2002, the WVDP shifted its attention and resources to the remaining requirements of the WVDP Act, waste disposal and facility decontamination and decommissioning. To facilitate these activities, in 2006, DOE prepared the Environmental Assessment for the Decontamination, Demolition, and Removal of Certain Facilities at the West Valley Demonstration Project. A Finding of No Significant Impact for these actions was subsequently made. Additionally, two EISs were prepared to review alternatives for completion of these requirements; WVDP Waste Management EIS (DOE/EIS-0337-F) completed in 2003 and ROD issued in 2005 and the Decommissioning and/or Long-Term Stewardship EIS (DOE/EIS-0226) completed in 2010 and ROD issued in 2010.

The "Preferred Alternative" to be implemented as a result of the Decommissioning and/or Long-Term Stewardship final EIS (DOE/EIS-0226) employs a two phased approach to decommissioning the site. The first Phase (Phase 1) involves the decommissioning of most site facilities, including demolition of the Main Plant Process Building and Vitrification Facility and studies undertaken to reduce uncertainties associated with decommissioning the remaining facilities. The second phase (Phase 2) completes the

decommissioning and/or long term management decision making for the site. CH2M HILL BWXT West Valley, LLC (CHBWV) has been awarded the DOE Contract (No. DE-EM0001529) for the initial activities under the "WVDP Phase 1 Decommissioning-Facilities Disposition" Project. The scope of this contract generally includes the facility disposition portion of the work that constitutes Phase 1. CHBWV's objective is to safely deliver a reliable, cost-effective, and accelerated completion of these WVDP Phase 1 Decommissioning-Facilities Disposition Project activities, as described in the Contract.

### **A.1 Purpose and Need**

Contract DE-EM0001529 between the U.S. Department of Energy (DOE) and CH2M HILL BWXT West Valley, LLC (BWXT), requires demolition, removal and placement of geomembrane cover in the location of the Liquid Pretreatment (LPS) Building on the U.S. Nuclear Regulatory Commission (NRC) Licensed Disposal Area (NDA) and the reinforcement (or armoring) of the north slope of the NDA. The LPS Building and associated treatment system was installed in 1992 as a RCRA 3008(h) Order on Consent Interim Measure, however, it was never used for its intended purpose due to no contaminated liquids ever being recovered in the NDA interceptor trench. DOE-WVDP has obtained agreement from the U. S. Environmental Protection Agency and New York State Department of Environmental Conservation (reference DW:2018:0779, B. C. Bower to J. D. Bradford, "Contract No. DE- EM0001529, Request Approval to Remove the Liquid Pretreatment System (LPS) and Complete Installation of the Nuclear Regulatory Commission Licensed Disposal Area (NDA) Cover, dated July 24, 2018) that the removal of the LPS is an acceptable activity. Armoring of the north slope is being performed to reduce the potential for erosion along the base of Erdman Brook at the north foot of the disposal area. Specific activities to be performed in the general area include:

- Complete removal of the LPS, including equipment, building, and foundation. Dispose of removed materials at offsite approved licensed waste disposal facility. The LPS is a Quonset hut style construction made of steel with exterior foam insulation. It measures approximately 40 ft wide by 80 ft long by 20 ft high.
- Regrading of the affected area, followed by soil compaction (**Figure 3**).
- Installation of a new section of XR-5 cover or equivalent cover material to form a contiguous cover over the NDA where the LPS will be removed. Upon completion of cover installation, the new section of material will be seal welded to the existing NDA cover. This action will be completed consistent with Environmental Checklist WVDP-2007-01, Installation of Geomembrane Cap and Slurry Wall on the NRC Licensed Disposal Area (NDA).
- Perform slope reinforcement at the toe of north slope of the NDA to enhance the ability to withstand the effects of a one-half Probable Maximum Precipitation (PMP) event generated from runoff from the NDA and the New York State-Licensed Disposal Area (**Figure 4**). The armoring will tie into existing armoring placed by New York State Energy Research and Development Authority in Lagoon Road Creek and Erdman Brook.

### **A.2 Objectives**

The objective of this environmental review is to remove the unneeded LPS facility, cover the footprint left from building removal with a geomembrane cap, and to mitigate erosion on the North slope of the NDA.

### **A.3 Type and Scope of Activities**

The proposed action evaluated in this environmental checklist involves the demolition and disposal of the LPS building, regrading and the installation of a geomembrane cap to provide a continuous cover over the NDA, and the armoring of the North slope of the NDA to mitigate erosion.

### **A.4 Schedule and Timing**

The scope of these actions is currently scheduled to commence in the spring of 2019.

## SECTION B. SOURCES OF IMPACT

- 1. Air Emissions** - There would be minor Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and particulate air emissions generated from the construction equipment used to perform the proposed activities. Typically, this equipment includes trucks, excavators, bull dozers, front-end loaders, and high-lifts. These emissions would occur intermittently over a ten-hour day. Fugitive dust could be generated during these activities. Such dust would be controlled as necessary to minimize impact. Volatile organic emissions could be generated during refueling. Such emissions will be minimal and will not require any controls under state and federal Clean Air Act regulations.
- 2. Liquid Effluents** - The U. S. Army Corp of Engineers determined that the proposed activity was outside of their jurisdiction. The WVDP is currently awaiting a response from NYSDEC if a wetlands permit is required. If a permit is required, all permit conditions will be implemented. Storm water impacted by construction/demolition activities is managed in accordance with the WVDP State Pollutant Discharge Elimination System (SPDES) permit No. NY0000973 and the Best Management Practices Plan and Storm Water Pollution Prevention Plan for the WVDP (WVDP-206).
- 3. Solid Waste** – Solid waste anticipated as a result of the proposed action would consist of construction and demolition debris (e.g. concrete, metal, and wood). This waste is transported to a properly permitted solid waste landfill for disposal. Soils and environmental media generated during these activities are characterized and managed in accordance with environmental media policies (QP-450-01 and WV-939). An active program to minimize waste generation is in place at the WVDP. The waste minimization program includes both source reduction and recycling. Waste Minimization and Pollution Prevention Opportunities are also an integral part of the work review process.
- 4. Radioactive Waste/Soil** - Radioactively contaminated soil may be encountered during construction activities. A Contamination Control Plan would be developed to address the monitoring, identification, control and containment of radioactively contaminated soil. The plan would be based on the WVDP “Radiological Control Manual” (WVDP- 010). The amount of radioactive waste generated (e.g., construction and demolition debris, contaminated soil, anti-Cs, gloves, wipes, and/or swipes) as a result of this activity would be minimal. Radioactive waste generated as a result of these activities would be packaged and managed in accordance with SOP 300-07, “Waste Generation, Packaging, and On-Site Transportation.” The collection and management of spilled waste would be handled in accordance with existing site procedures.

Excavated soils would be managed in accordance with site procedures, policies (including the environmental media management policies (QP-450-01 and WV-939), and applicable regulatory requirements. The layout and construction of the proposed excavation would be designed to minimize the amount of contaminated environmental media generated.

- 5. Hazardous Waste** - Any hazardous waste generated during these activities would be sorted, characterized, stored, treated, and disposed of in compliance with applicable Resource Conservation and Recovery Act federal and New York state hazardous waste management regulations. Hazardous waste generated as a result of these activities would be packaged and managed in accordance with SOP 300-07, “Waste Generation, Packaging, and On-Site Transportation.” The collection and management of spilled waste would be handled in accordance with existing site procedures.
- 6. Mixed Waste** – While not anticipated, mixed waste would only be generated within the WVDP retained premises. Characterized mixed waste streams are stored in interim status units, 90-day accumulation areas, or satellite accumulation areas. Activities would be planned and performed to minimize generation of mixed waste. Mixed waste would be stored and treated in compliance with applicable state and federal regulations, DOE Orders, and legal agreements (e.g., the RCRA Part A Permit and the Site Treatment Plan (WVDP-299) prepared in accordance with the WVDP Federal Facilities Compliance Act Consent Decree with New York State).
- 7. Chemical Storage/Use** – Small amounts of chemicals may be used during construction activities. Appropriate personal protective equipment will be worn by all personnel managing chemical products needed for the construction activities. All chemicals brought on site at the WVDP are reviewed and must be approved per EAD-103, Regulatory Strategy Purchase Requisition Review Procedure. These chemicals will be properly stored prior to and between recurrent use. Any spilling or leaking of these chemicals must be immediately reported to the CHBWV Plant Systems Operations. Appropriate spill response actions will be developed and implemented depending on the chemicals involved in the spill.

CHBWV Regulatory Strategy will be notified by Operations and timely DOE and regulatory notifications will be made in accordance with site policy (WV-915) and applicable regulations.

8. **Petroleum Storage/Use** - Petroleum products to support this action (i.e., gasoline, diesel fuel, hydraulic fluids and lubricants) are stored in containers before use. Equipment would be refueled at the site from portable tanks. All petroleum product storage and use will be done in a manner that will minimize environmental impacts. Steps taken will include a documented fueling plan and leak inspection program. Spill kits will be readily available in the event of a spill or release. Spills of petroleum products shall be immediately reported by the person discovering the spill to CHBWV Plant Systems Operations who will notify Regulatory Strategy. All cleanup materials will be collected and properly disposed of by CHBWV Waste Operations. Timely regulatory and DOE notifications will be made in accordance with WVDP procedures and New York State agreement reporting criteria.
9. **Asbestos** - Not applicable
10. **Utilities** - Not applicable
11. **Clearing/Excavation** - Excavation work would be performed to demolish the LPS building and pad, regrading the footprint for installation of the geomembrane cap, and for regrading for the North slope toe armoring. These excavations would be performed with the appropriate excavation equipment and in compliance with the health, safety and radiation control procedures and plans. Controlled staging and work areas would be established for the excavated material.
12. **Water Use/Diversion** - Water would be needed for dust suppression. Water would be obtained from the existing site water sources.
13. **Water Treatment** - Water treatment would be limited to the reduction of suspended solids in stormwater run-off through the use of controls such as silt fences and settling type basins/structures.
14. **Waterway Course Modification** - Modification of water courses would be limited to on site drainage ditches and the establishment of stormwater detention areas. Designs would meet New York State Standards and Specifications for Erosion and Sediment Control (Blue Book) 2016 criteria. There would be no modification or impacts to any of the natural water courses or area wetlands.
15. **Radiation/Toxic Chemical Exposure** - Exposure to contamination is not anticipated. However, all work in radiologically controlled areas, or if contamination is encountered would be maintained as low as reasonably achievable (ALARA) and in compliance with State and Federal regulations and DOE Orders, as implemented by the Radiological Controls Manual. Worker exposure is limited by guidance provided in the WVDP Radiological Controls Manual, WVDP "Industrial Hygiene and Safety Manual" (WVDP-011), and SOP 15-14, "Entry Into and Exit From Contaminated Areas." The individual dose to operators would not exceed the administrative control limit of 100 mrem/day and 500 mrem/year (WVDP-010). Chemical exposure to site personnel is assessed and monitored in accordance with the "Industrial Hygiene and Safety Exposure Assessment and Monitoring Plan" (WVDP-215) and WVDP Industrial Hygiene and Safety Manual.
16. **Pesticide/Herbicide Use** - Not applicable
17. **High Energy Source/Explosives** - Not applicable
18. **Transportation** - Activities will include shipments of materials onto and off of the WVDP and associated facilities. Shipments will include construction and demolition waste to authorized treatment and disposal facilities. All shipments will comply with state and federal Department of Transportation regulations and requirements. Material shipments will not have significant impacts to public roads and transportation systems.
19. **Noise Levels** - There would be an increase in noise levels typical of this type of construction equipment (e.g., excavators, trucks, bull dozers, etc.). Noise levels are not anticipated to exceed 80 dBA. Applicable federal and state regulations, and DOE orders, as implemented by contractor safety procedures would be observed during the work.
20. **Workforce Adjustment** - Not applicable



## SECTION C. CATEGORY EVALUATION CRITERIA:

### 1. Take place in an area of previous or on-going disturbance? Yes.

The proposed activities would take place in and adjacent to the NDA which are areas of previous and ongoing disturbance.

### 3. Impact a RCRA-regulated unit or facility? Yes

The NDA has been identified as an interim status Solid Waste Management Unit (SWMU) regulated under the NYSDEC regulation 6 NYCRR Part 373-3 and pursuant to the 3008(h) Administrative Order on Consent, Docket No. II RCRA-3008(h)-92-0202.

## SECTION D. RECOMMENDATION AND DETERMINATION:

Three (3) Categorical Exclusions (CX) are recommended for the proposed actions as follows:

NDA toe armoring - falls within the class of actions described in Title 10, Code of Federal Regulations (CFR) Part 1021, as Amended, Subpart D, Appendix B, CX B1.3, "Routine maintenance."

Specifically, subsection (k) states – "Erosion control and soil stabilization measures"

Demolition and disposal of the LPS building - falls within the class of actions described in Title 10, Code of Federal Regulations (CFR) Part 1021, as Amended, Subpart D, Appendix B, CX B1.23, "Demolition and disposal of buildings."

Installation of geomembrane cap on the LPS building footprint - falls within the class of actions described in Title 10, Code of Federal Regulations (CFR) Part 1021, as Amended, Subpart D, Appendix B, CX B6.1, "Small-scale, short-term clean-up action, under RCRA, Atomic Energy Act, or other authorities, less than approximately 10 million dollars in cost (in 2011 dollars), to reduce risk to human health or the environment from the release or threat of release of a hazardous substance other than high-level radioactive waste and spent nuclear fuel, including treatment (e.g., incineration), recovery, storage, or disposal of wastes at existing facilities currently handling the type of waste involved in the action."

Specifically, subsection (e) states - "Capping or other containment of contaminated soils or sludges if the capping or containment would not unduly limit future groundwater remediation and if needed to reduce migration of hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products into soil, groundwater, surface water, or air ."

Additionally, subsection (i) states - "Drainage controls (such as run-off or run-on diversion) if needed to reduce offsite migration of hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum or natural gas products or to prevent precipitation or run-off from other sources from entering the release area from other areas."

The proposed actions falls within the scope and intent of the categorical exclusions identified above. In addition, the proposed actions satisfies the general requirements for a categorical exclusion. There are no extraordinary circumstances related to the proposed actions that would affect the significance of the action, and the action is not "connected" to other actions with potentially or cumulatively significant impacts (per 40 CFR 1508.25(a)(1) and (2), respectively).

The proposed actions are not an interdependent part of the EIS for WVDP completion; that is, the proposed action does not depend on the EIS for justification. As such, these efforts would not prejudice the results of the EIS for WVDP completion, therefore, proceeding with these actions would not bias nor preclude DOE from implementing any of the EIS alternatives. Likewise, the action would not trigger other actions that require an EIS and could proceed without other actions taking place previously or simultaneously.

## REFERENCES

"Management of Environmental Media," WV-939, Revision 6 (or latest revision), June 21, 2017

"Spill/Release Evaluation, Management, and Reporting Program," WVDP-340, Rev. 7 (or latest revision), September 18, 2017

"Spill/Release Notification and Reporting," WV-915, Rev. 12 (or latest revision), March 21, 2018

"WVDP Site Treatment Plan Fiscal Year 2017 Update," WVDP-299, Rev. 26, January 31, 2018, or latest update

"WVDP Radiological Controls Manual," WVDP-010, Rev. 40 (or latest revision), March 21, 2018

"WVDP Industrial Hygiene and Safety Manual," WVDP-011, Rev. 38 (or latest revision), March 27, 2018

New York State Department of Environmental Conservation, "West Valley Demonstration Project (WVDP) Administrative Order on Consent," August 27, 1996

"West Valley Demonstration Project State Pollution Discharge Elimination System Permit," SPDES Permit No.: NY0000973, DEC Id. No.: 9-0422-00005/00006, Effective Date July 28, 2015

"New York State Standards and Specifications for Erosion and Sediment Control (Blue Book)", November 2016

"General Permits," 6NYCRR 750-1.21

U.S. Army Corps of Engineers, "Reissuance of Nationwide Permits," January 6, 2017

U. S. Congress, "National Environmental Policy Act," 42 U.S.C. 4321 *et seq.*

"Clean Air Act," 42 U.S.C. 7401 *et seq.*

"Clean Water Act," 33 U.S.C. 1251 *et seq.*

"Resource Conservation and Recovery Act," 42 U.S.C. 6901 *et seq.*

"Public Law 96-368 West Valley Demonstration Project Act (S.2443)", dated October 1, 1980

U.S. Department of Energy, "Final Environmental Impact Statement: Long-Term Management of Liquid High-Level Radioactive Wastes Stored at the Western New York Nuclear Services Center, West Valley," DOE/EIS-0081, June 1982

West Valley Demonstration Project, "Supplement Analysis of Environmental Impacts Resulting from Modifications in the West Valley Demonstration Project," WVDP-EIS-025, September 7, 1993

"Supplement Analysis II of Environmental Impacts Resulting from Modifications in the West Valley Demonstration Project," WVDP-321, June 16, 1998

"Real Property Asset Management," DOE Order 430.1C, August 19, 2016

"West Valley Demonstration Project Waste Management Environmental Impact Statement," DOE/EIS-0337-F, December 2003

"West Valley Demonstration Project Waste Management Activities, Record of Decision," June 9, 2005

"Environmental Assessment for the Decontamination, Demolition, and Removal of Certain Facilities at the West Valley Demonstration Project," DOE/EA-1552, September 14, 2006

"Finding of No Significant Impact Proposed Decontamination, Demolition, and Removal of Certain Facilities at the West Valley Demonstration Project," September 14, 2006

"Western New York Nuclear Service Center Phased Decisionmaking Alternative Technical Report, December 22, 2009

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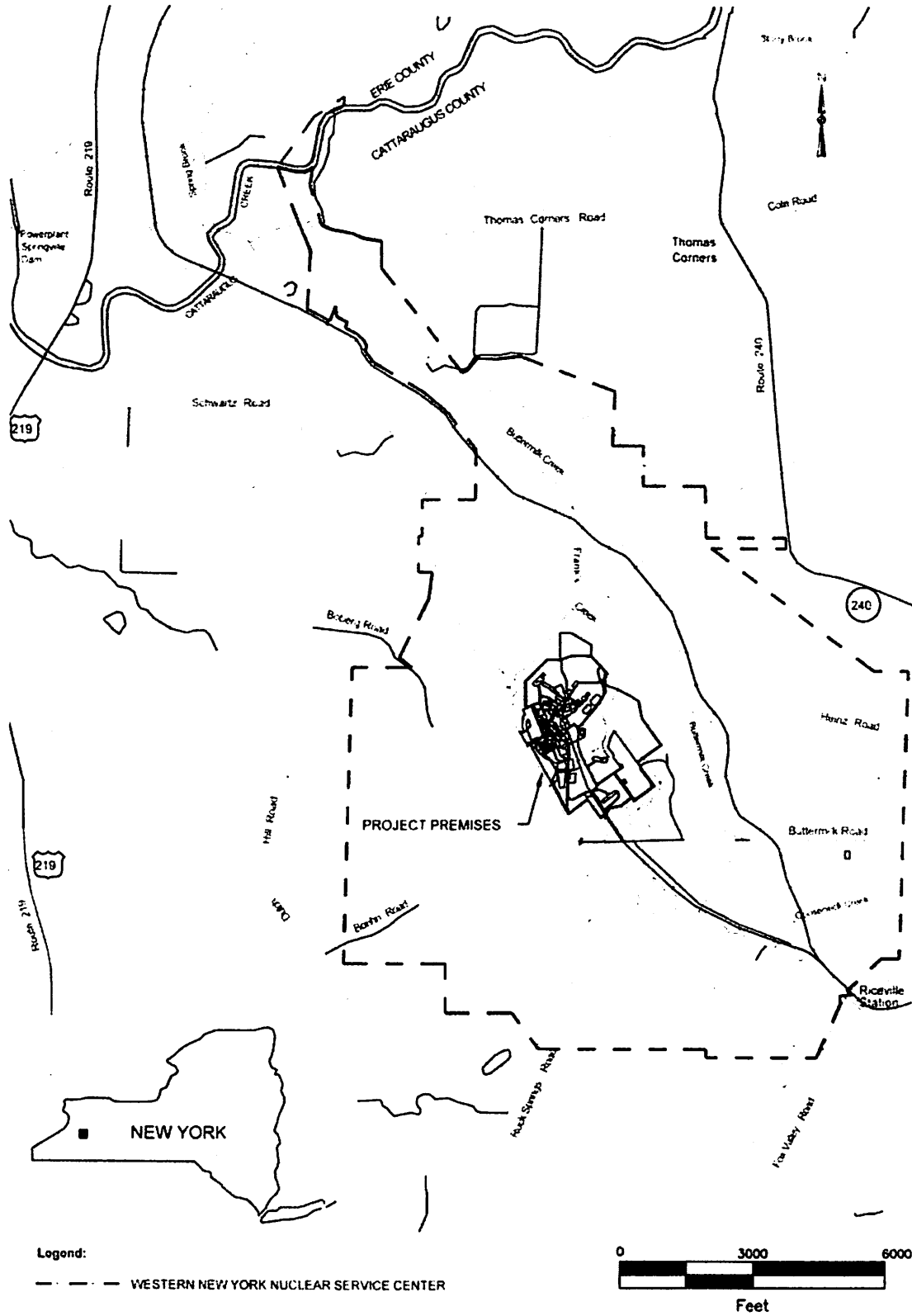
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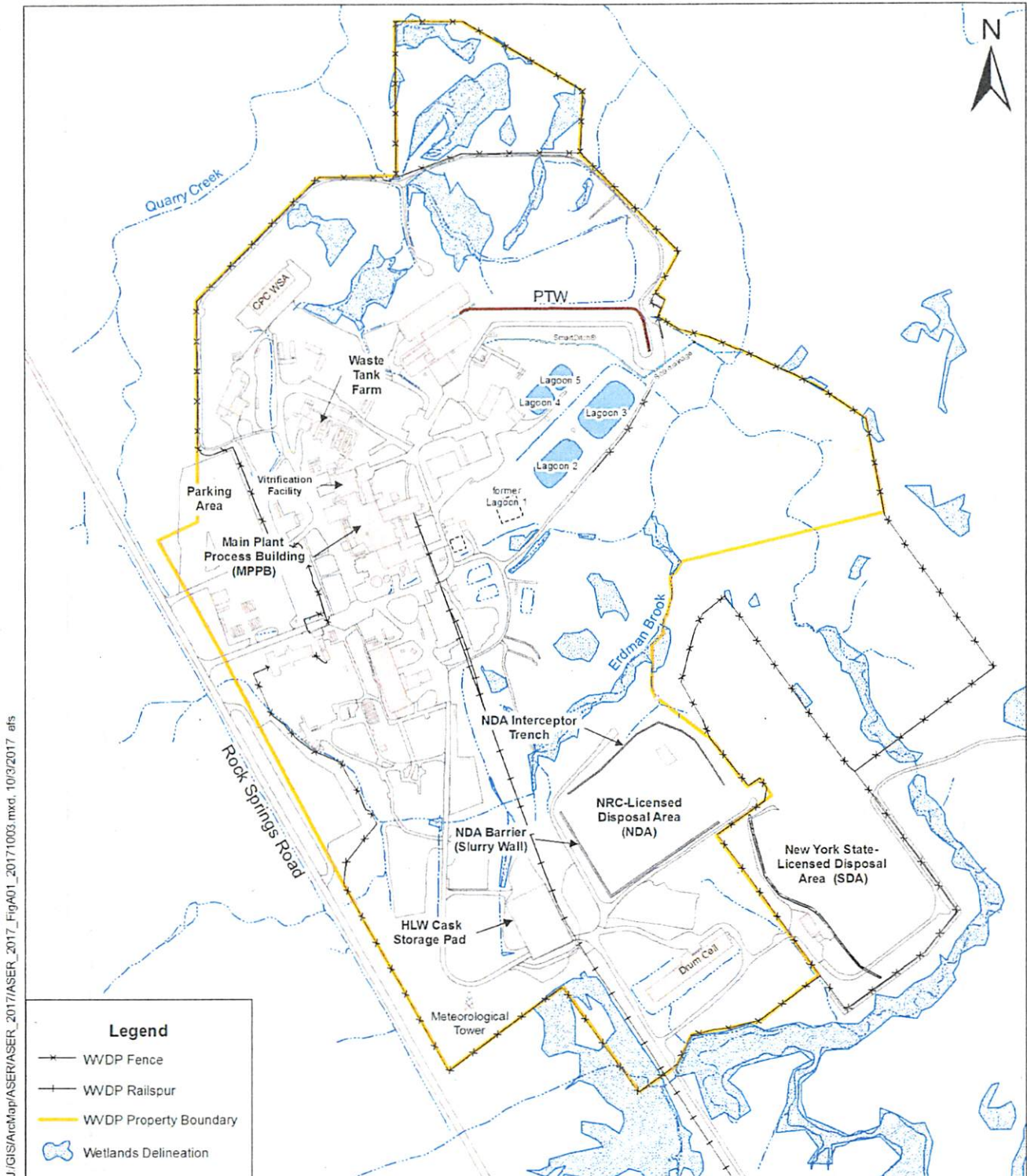
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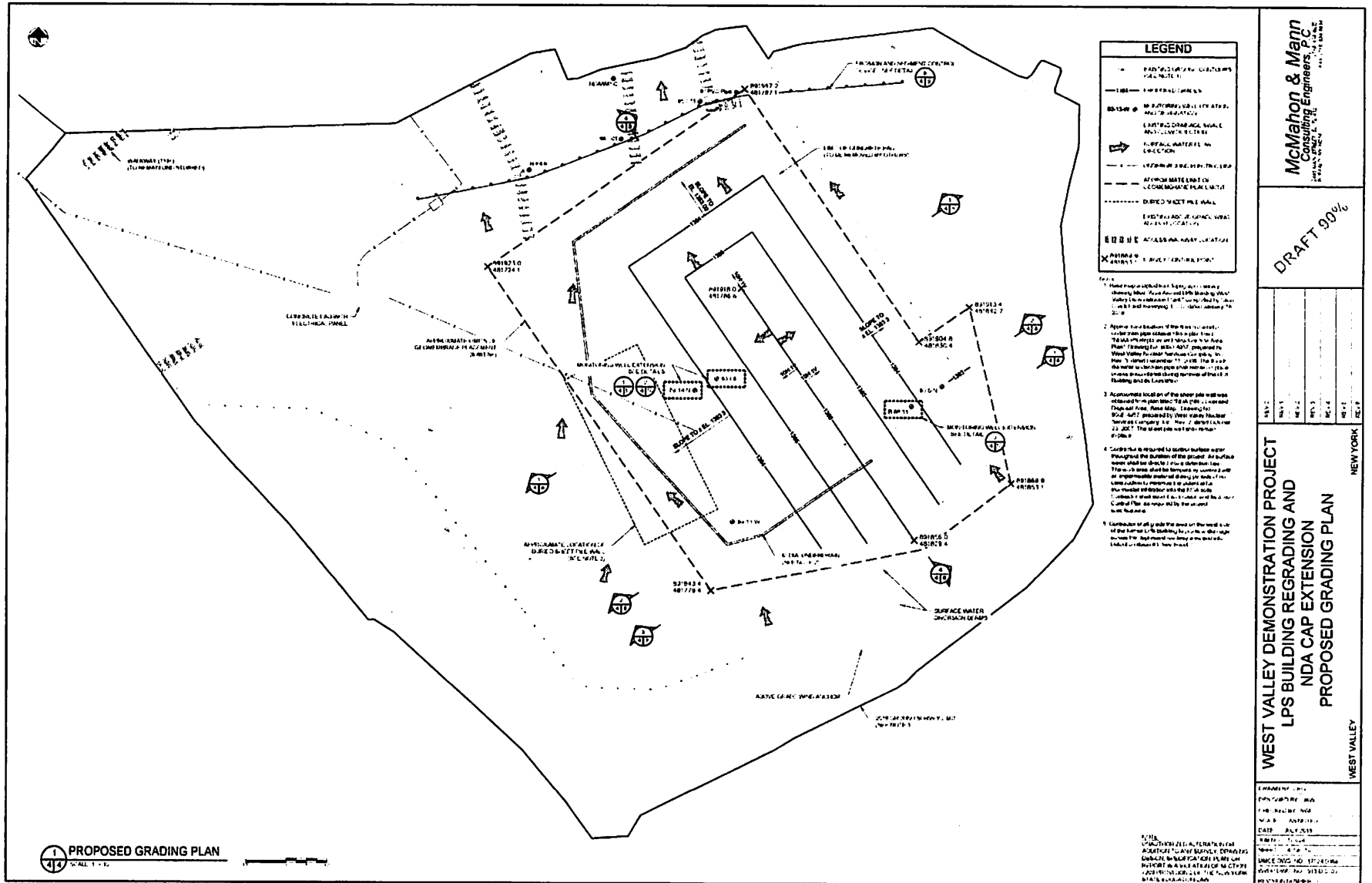
**FIGURE 1**  
**Location of the Western New York Nuclear Service Center**



**FIGURE 2**  
**West Valley Demonstration Project Base Map**



**FIGURE 3**  
**West Valley Demonstration Project Proposed NDA Cap Extension and Regrading Plan**



**LEGEND**

- PROPOSED GRADING PLAN
- EXISTING GRADING PLAN
- EXISTING DRAINAGE SWALE
- EXISTING DRAINAGE DITCH
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING ELECTRICAL MAIN
- EXISTING GAS MAIN
- EXISTING TELEPHONE MAIN
- EXISTING CABLE MAIN
- EXISTING FIBER OPTIC MAIN
- EXISTING FIRE MAIN
- EXISTING WATER SERVICE LINE
- EXISTING SEWER SERVICE LINE
- EXISTING ELECTRICAL SERVICE LINE
- EXISTING GAS SERVICE LINE
- EXISTING TELEPHONE SERVICE LINE
- EXISTING CABLE SERVICE LINE
- EXISTING FIRE SERVICE LINE

1. All proposed grading shall be in accordance with the proposed grading plan and shall be in accordance with the proposed drainage plan.
2. All proposed drainage shall be in accordance with the proposed drainage plan and shall be in accordance with the proposed grading plan.
3. All proposed water main shall be in accordance with the proposed water main plan and shall be in accordance with the proposed grading plan.
4. All proposed sewer main shall be in accordance with the proposed sewer main plan and shall be in accordance with the proposed grading plan.
5. All proposed electrical main shall be in accordance with the proposed electrical main plan and shall be in accordance with the proposed grading plan.
6. All proposed gas main shall be in accordance with the proposed gas main plan and shall be in accordance with the proposed grading plan.
7. All proposed telephone main shall be in accordance with the proposed telephone main plan and shall be in accordance with the proposed grading plan.
8. All proposed cable main shall be in accordance with the proposed cable main plan and shall be in accordance with the proposed grading plan.
9. All proposed fire main shall be in accordance with the proposed fire main plan and shall be in accordance with the proposed grading plan.
10. All proposed water service line shall be in accordance with the proposed water service line plan and shall be in accordance with the proposed grading plan.
11. All proposed sewer service line shall be in accordance with the proposed sewer service line plan and shall be in accordance with the proposed grading plan.
12. All proposed electrical service line shall be in accordance with the proposed electrical service line plan and shall be in accordance with the proposed grading plan.
13. All proposed gas service line shall be in accordance with the proposed gas service line plan and shall be in accordance with the proposed grading plan.
14. All proposed telephone service line shall be in accordance with the proposed telephone service line plan and shall be in accordance with the proposed grading plan.
15. All proposed cable service line shall be in accordance with the proposed cable service line plan and shall be in accordance with the proposed grading plan.
16. All proposed fire service line shall be in accordance with the proposed fire service line plan and shall be in accordance with the proposed grading plan.

**McMahon & Mann**  
 Consulting Engineers, P.C.  
 100 West Valley Road  
 West Valley, New York 11791

**DRAFT 90%**

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| NO. 1 | NO. 2 | NO. 3 | NO. 4 | NO. 5 |
|       |       |       |       |       |

**WEST VALLEY DEMONSTRATION PROJECT**  
**LPS BUILDING REGRADING AND**  
**NDA CAP EXTENSION**  
**PROPOSED GRADING PLAN**

WEST VALLEY NEW YORK

|      |     |    |       |
|------|-----|----|-------|
| DATE | NO. | BY | CHKD. |
|      |     |    |       |

SCALE: 1/4" = 1'-0"

**FIGURE 4**  
**West Valley Demonstration Project Armoring and Protection of the North Slope of the NDA**

