

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: TAN 1619 Production Support Facility Construction

SECTION B. Project Description and Purpose:

The Specific Manufacturing Capability (SMC) has identified the need for design and construction of a modern facility (TAN-1619) to support existing and future production operations. The location of the new facility was originally addressed in ECP INL-20-035 as part of the environmental permitting compliance process for the TAN-691 Maintenance and Vehicle Storage Building. ECP INL-20-035 identified 3.6 acres of ground that will be developed as part of future projects, of which TAN-1619 is one. A Cultural Resource Review (CRR), BEA-20-018, a Munitions Response Area Activity Notification (MRAAN), MR-2020-002, and Notice of Soil Disturbance (NSD), NSD-2020-043, were performed for the TAN-691 project but will need to be updated for the TAN-1619 project. Additional areas where work will be conducted, will need CRR, MRAAN and NSD reviews.

This ECP involves the design and construction of TAN-1619 just to the east of TAN-691. The proposed facility will be ~18,000 ft² and ~46' tall with the parapet, depending upon final design criteria. It is anticipated that the facility will be constructed of pre-cast concrete walls. The proposed facility will include a manufacturing floor with equipment to support production operations (machining and welding equipment), office space, and restrooms. It will tie into the new TAN Utility Corridor for potable/fire water, sanitary sewer, electricity, and telecommunications. An asphalt parking area will be near the building. Additionally, a new security fence will be constructed around the facility as part of the construction process so that the property and facility can be annexed into the SMC security perimeter after turnover is complete. A standby generator will also be installed for emergency power for critical loads.

A Geotechnical investigation will be completed in the planned construction area. Figure 1 shows the satellite image of the approximate building location. Figure 2 shows the construction and potential laydown areas. Figures 3 and 4 show exterior building elevations.

The building will be constructed to INL standards for the applicable use-type. Required for construction will be the need to excavate for foundations and footings as well as the use of pit run from the Monroe Pit to support concrete and asphalt placement.



Figure 1. Approximate Building Location.

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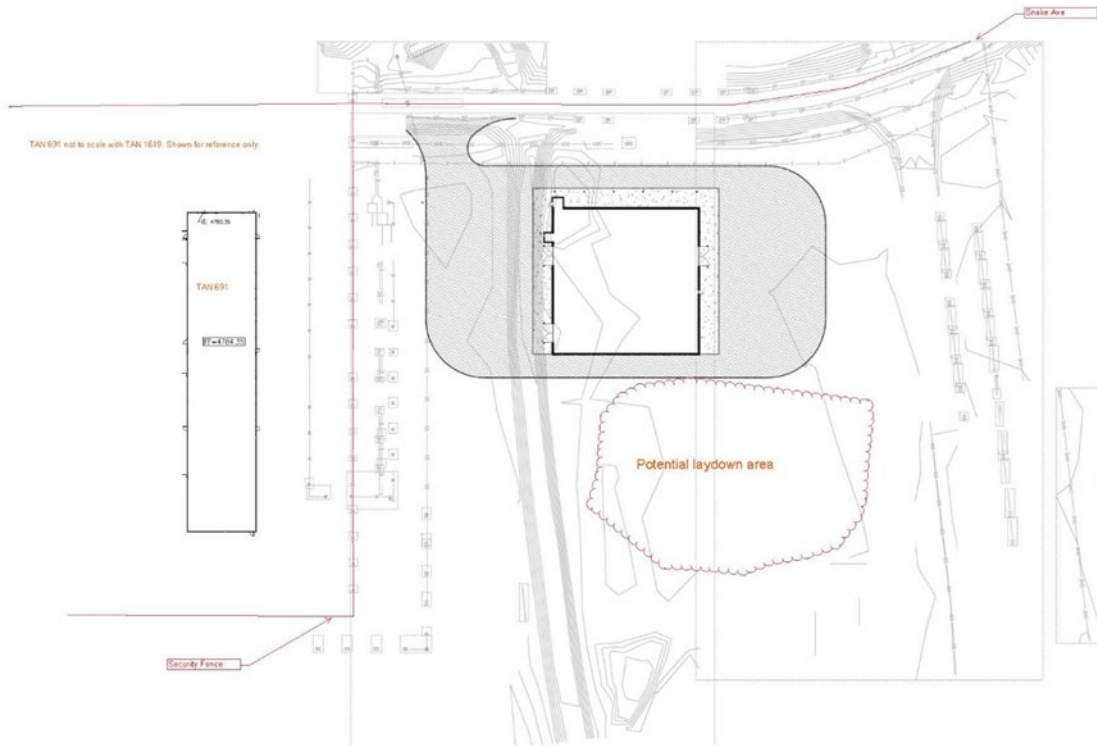


Figure 2. Construction and Laydown Areas.

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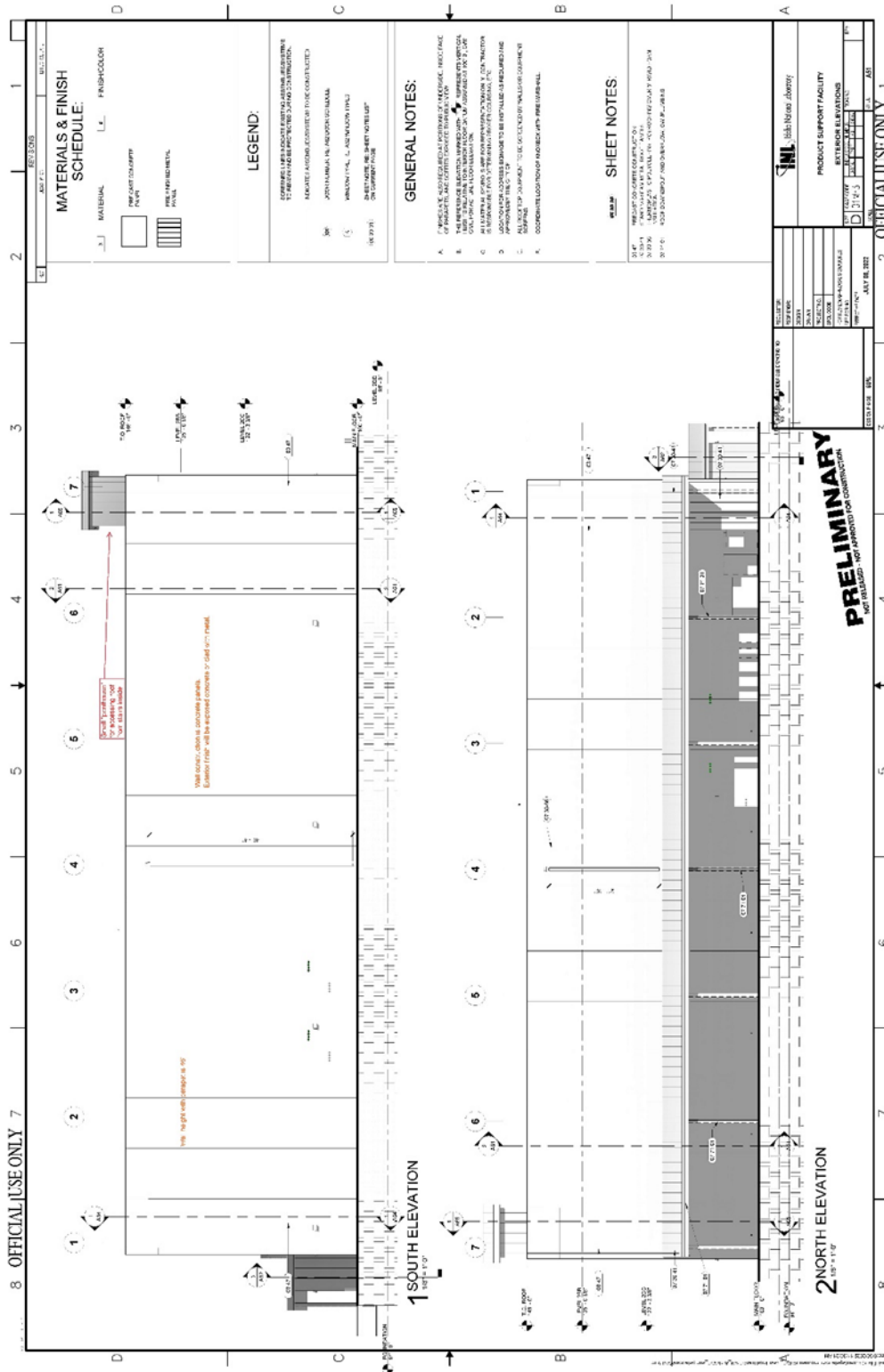


Figure 3 South and North Building Elevations

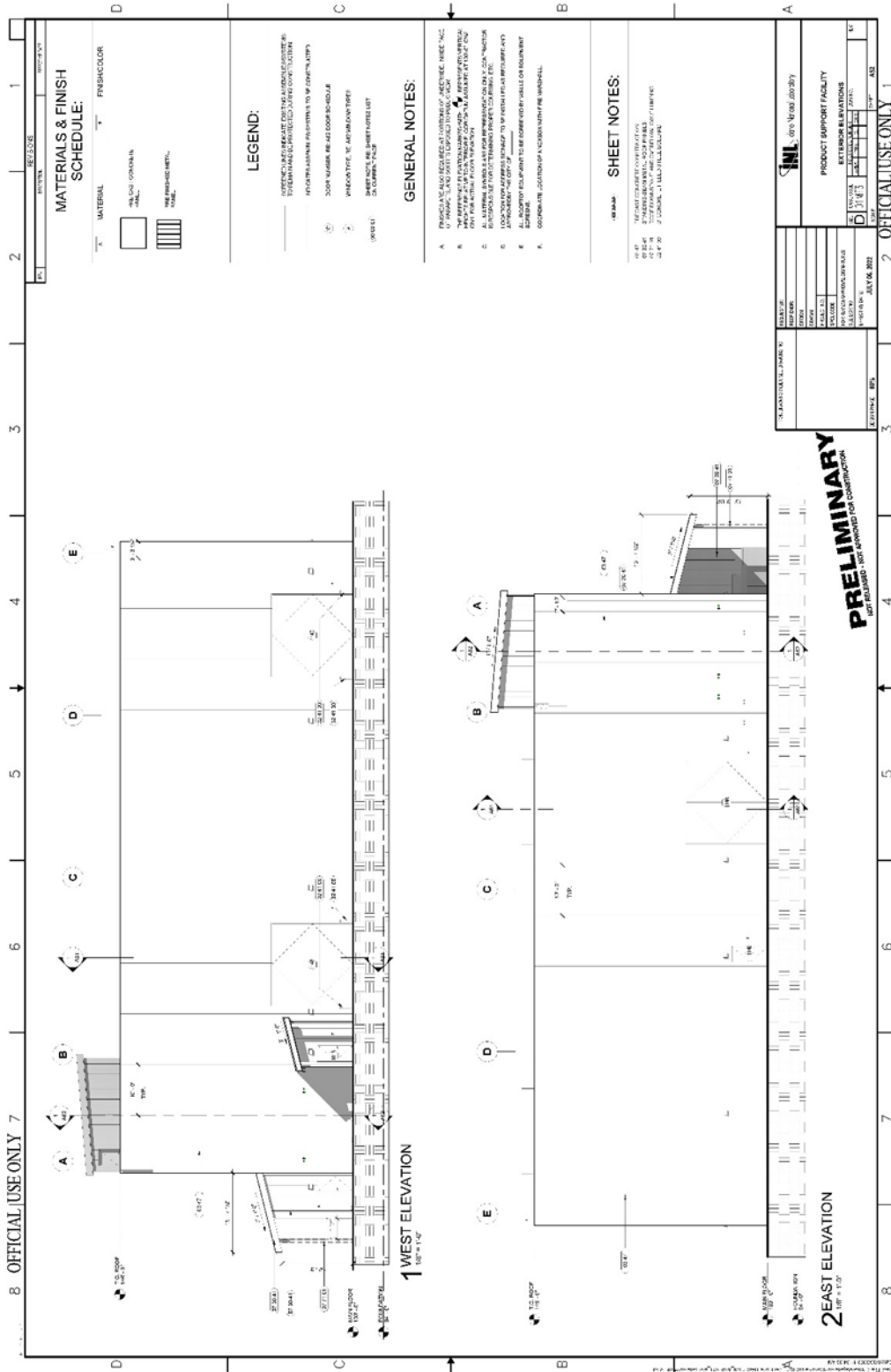


Figure 4 West and East Building Elevations

SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Construction of the building will involve emissions from vehicles and fugitive dust. The building will also have an emergency generator to prevent freezing of water lines and maintaining minimum operations in case of power outages. An APAD will be required for the emergency generator.

Discharging to Surface-, Storm-, or Ground Water

The building will have floor drains for floor cleaning and sanitary sewer. There will not be any discharges to surface, storm or ground water. The project is not located within the INL Storm-Water Corridor.

Disturbing Cultural or Biological Resources

The scope of the geotechnical studies necessary to support the conceptual design process for TAN-1619 have been reviewed under Cultural Resource Review (CRR) BEA-20-2018 for ECP INL-20-035. This activity can be performed without further coordination with CRMO, unless geotechnical studies need to occur outside of the original proposed footprint. However, prior to beginning ground disturbing activities related to the construction of TAN-1619, the CRMO (grp-crmo@inl.gov) must be contacted to complete a Cultural Resource Review (CRR) after conceptual design is finalized. Please see HOLD POINTS for more detail and clarification. If objects of potential archaeological or historical significance (e.g., arrowheads, flints, bones, etc.) are encountered during project activities, personnel must stop work and contact the CRMO prior to continuation of any ground disturbing activities in the area (grp-crmo@inl.gov).

Please refer to CRR BEA-22-H003 for the building and associated utilities.

There is the potential for this work to impact desert vegetation and for project personnel to interact with various animal species. The potential for impact will be minimized by the short duration, small footprint, infrequent access to equipment, and the commitment of the project to use existing roadways and previously disturbed areas whenever possible. Within two weeks of the initiation of any ground disturbing activities, a biological resource review must be completed. If ground disturbing activities occur from April 1 to October 1, a nesting bird survey will be included in the biological resource review in order to comply with the Migratory Bird Treaty Act. Upon completion of project activities, disturbed areas that show extensive vegetation removal or soil disturbance must be revegetated with native seed. Colby Kramer (208)526-9085 should be contacted two weeks prior to beginning work to arrange for biological resource review.

If the proposed action disturbs vegetation, project personnel must contact Colby Kramer (208)526-9085 before the project starts. Environmental Monitoring and Natural Resource Services must survey the disturbed area to estimate the amount of sagebrush (if any) and native vegetation that will require restoration. The project must maintain funding for restoration efforts, which could occur in one or more subsequent fiscal years.

Generating and Managing Waste

Construction waste will be generated. All waste will be turned over and managed by Waste Generator Services (WGS).

This project has the potential to generate large quantities of excess soil. Environmental, Cultural and Biological resource personnel will determine locations (out of storm water corridor, limited sage brush disturbance, previously disturbed areas, etc.) to place this soil.

Releasing Contaminants

The project will purchase, store, and use chemicals for construction activities such as oils, petroleum products, cleaners, etc. Project personnel may use non-hazardous chemical substitutes in the place of hazardous chemicals if the non-hazardous substitutes meet the requirements and specifications of the requester. In addition, project personnel will use spill prevention/minimization measures during storage and use of chemicals and fuels. Ensure Chemical Coordinator will enter these chemicals into the INL Chemical Management Database. All chemicals will be managed in accordance with laboratory procedures. When dispositioning surplus chemicals, project personnel must contact the facility Chemical Coordinator for disposition instructions. Although not anticipated, spills could occur when using chemicals or fueling equipment. In the event of a spill, notify facility Environmental Staff. If the Environmental Staff cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

CERCLA areas are located nearby. Prior to beginning field activities, confirm with the IEC CERCLA NSD coordinator (Erik Whitmore at 208-533-0178) that the correct NSD and MRAAN are applicable for this project. Notify the IEC CERCLA NSD coordinator to have NSD and MRAAN determinations completed prior to starting work for construction areas.

In addition, the project area has a field fence that runs along the south side of Snake Avenue. The land north of the field fence is an Underground Radioactive Materials Area (URMA), with the potential for radiological or hazardous contamination. The project intends to work in the URMA for utility tie-ins and use of a potential laydown/temporary parking area. Radiological control personnel will be onsite when excavating activities occur in the URMA. If contamination is discovered, stop work and contact the CERCLA NSD Coordinator or the CERCLA PEL for further instructions.

Using, Reusing, and Conserving Natural Resources

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The Project will reuse and recycle materials where economically practicable and will divert waste from disposal in the CFA Landfill, where conditions allow.

SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification: Identify the applicable categorical exclusion from 10 Code of Federal Regulation (CFR) 1021, Appendix B, give the appropriate justification, and the approval date.

For Categorical Exclusions (CXs), the proposed action must not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, or similar requirements of Department of Energy (DOE) or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; (3) disturb hazardous substances, pollutants, contaminants, or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist that would affect the significance of the action. In addition, the action is not "connected" to other action actions (40 CFR 1508.25(a)(1) and is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1608.27(b)(7)).

References:

10 CFR 1021, Appendix B, B 1.15, "Siting, construction or modification, and operation of support buildings and support structures."

Justification:

Project activities described in this ECP are consistent with 10 CFR 1021, Appendix B to Subpart D, item B1.15 "Siting, construction or modification, and operation of support buildings and support structures (including, but not limited to, trailers and prefabricated and modular buildings) within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include, but are not limited to, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (such as security posts); fire protection; small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components; and similar support purposes, but exclude facilities for nuclear weapons activities and waste storage activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.5, B6.6, and B6.10 of this appendix;"

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Jason L. Anderson, DOE-ID NEPA Compliance Officer on: 09/07/2022