INDUSTRY DAY
GRAND CANYON NATIONAL PARK

Notice ID: 140P2026R0080

NORTH RIM UTILITIES

NPS PMIS# GRCA 317819

NORTH RIM CRITICAL UTILITY RESTORATION

NPS PMIS# GRCA 352119

NORTH RIM HEAVY EQUIPMENT MAINTENANCE FACILITY

NPS PMIS# GRCA 353101

REPLACE SOUTH RIM WASTEWATER TREATMENT PLANT

NPS PMIS #: GRCA 257282

June 11, 2026

THIS MEETING WILL NOT BE RECORDED

AGENDA

- Introductions and Welcome - *Jim Waller, Contracting Officer*
- North Rim Utilities (Post-Fire) – *Mike Luecker, Project Manager*
- North Rim Utilities (Temp WWTP)
- North Rim Utilities (Permanent WWTP)
- North Rim Critical Utility Restoration (Post-Fire) – *Doug Denk, Project Manager*
- North Rim Heavy Equipment Maintenance Facility
- Replace South Rim WWTP
- Closing Remarks & Survey Request - *Jim Waller, Contracting Officer*

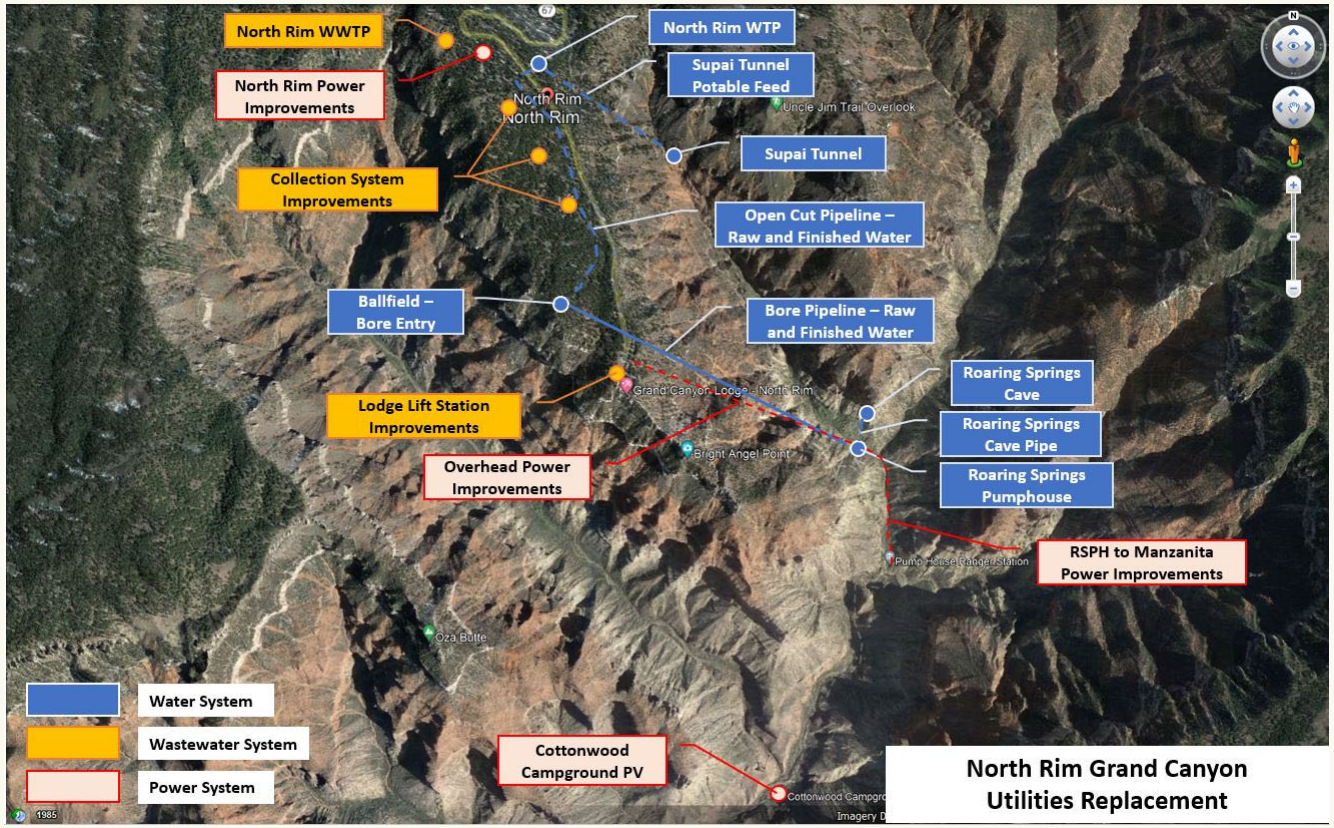
GRCA - 317819 North Rim Utilities – Post-Fire

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** Greater Than $100M
- **Design & Construction Method:** Design – Bid – Build
  - One firm-fixed-price
- **Procurement Method:** Full & Open
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: (completed April 2026)
  - Solicitation: Expected August 2026 (posted 90 days)
  - Award: Expected Early 2027
- **Period of Performance:** 4 years
- **Construction Management Representative Services:** Call Order against standing Blanket Purchase Agreement for GRCA.

Impacts of Dragon Bravo Fire to Design

Vol	Description	Fire Impacts to Design
0	Construction camps and staging	No impacts, use admin area for staging/camps
1	New NR pipeline and access road	No impacts
2	Bore – Pipeline NR to RSPH	No impacts
3	Pipeline - NR to Supai	No impacts
4	RS Cave Pipeline	No impacts
5	RSPH	No impacts
6	NR Water Treatment Plant	No impacts
7	NR WW Treatment Plant	Redesign required
8	NR Collections	Remove Historic District; no impact to other regions
9	NR Power	Remove Historic District; no impact to other regions
10	Overhead Power	No impacts
11	Power to Manzanita	No impacts
12	Power at Cottonwood	No impacts

Pre-Fire Industry Day – June 2025



Impacts of Dragon Bravo Fire to Design – June 2025 Industry Day

Y--SPECIAL NOTICE -Industry Day Attachments

Opportunity

Inactive

Notice ID	Contract Opportunity Type	Inactive Dates	Response Date
140P2025R0075	Presolicitation	Jul 15, 2025	Jun 30, 2025 5:00 PM MDT
Related Notice	**Contract Line Item Number**	**Inactive Policy**	**Published Date**
140P2025R0075	(blank)	15 days after response date	Jul 21, 2025 4:47 PM MDT

Document	File Size	Access	Updated Date
Attendees_List_6-10-25_3.pdf	254.47 KB	Public	Jul 21, 2025
Draft_Specs_01_11_00I_Summary_of_Work_3.pdf	721.36 KB	Public	Jul 21, 2025
Draft_Specs_26_05_10B_Network_Comm_Sys_3.pdf	652.37 KB	Public	Jul 21, 2025
Draft_Specs_40_90_00B_Instru_and_Control_for_Process_Systems_3.pdf	731.72 KB	Public	Jul 21, 2025
Survey_Questions_Rev_7_21_25_3.docx	28.63 KB	Public	Jul 21, 2025
AFTER_INDUSTRY_DAY_GRCA_SR_WWTP_Industry_Draft_7_7_25_3.pdf	19.67 MB	Public	Jul 21, 2025
AGENDA_GRCA_Industry_Day_6-10-25_2.pdf	77.23 KB	Public	Jun 9, 2025
South_Rim_POI_Map_and_Presentation_Address_2.pdf	310.55 KB	Public	Jun 9, 2025
GRCA_318719_SHEETS_(Reduced)_2.pdf	70.99 MB	Public	Jun 9, 2025
GRCA_318719_NRim_CLINS___Price_Schedule_2.pdf	787.19 KB	Public	Jun 9, 2025
GRCA_SR_WWTP_IND_DAY_DRWs_2.pdf	25.45 MB	Public	Jun 9, 2025

Refer to Prior Industry Day (June 2025 – Notice ID 140P2025R0075) Focused on:

- SR WWTP (GRCA 257282)
- NR Utilities (GRCA 318719) – Pre-Fire, Volumes 1-12)

Refer to Prior Industry Day (June 2025) Attachments:

- SR WWTP information is still valid to provide draft concepts and scope of work.
- NR Utilities information is still valid to provide draft concepts and scope of work, with following post-fire changes:
  - Volume VII WWTP will be removed
  - Volume VIII Collections – Historic District removed
  - Volume IV Power - Historic District removed

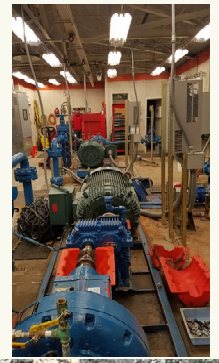
North Rim Utilities – Project Overview

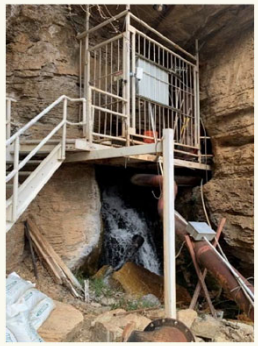
This project will address critical system deficiencies associated with water, wastewater, electrical, and communication systems, along with their associated equipment, components, and support structures. Infrastructure includes water (raw water, treatment, and distribution), wastewater conveyance, power and communications (standby power, overhead power, solar power, fiber communications).

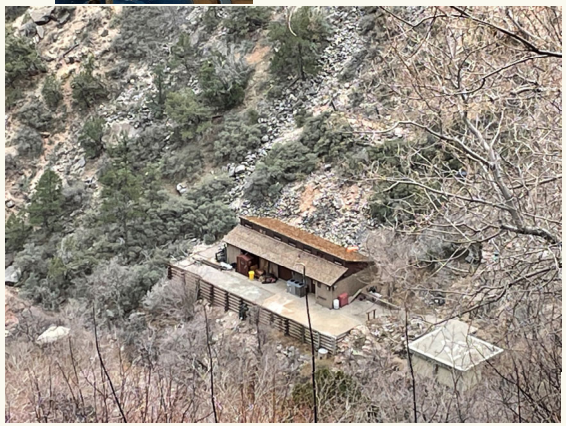
Project Scope Includes:

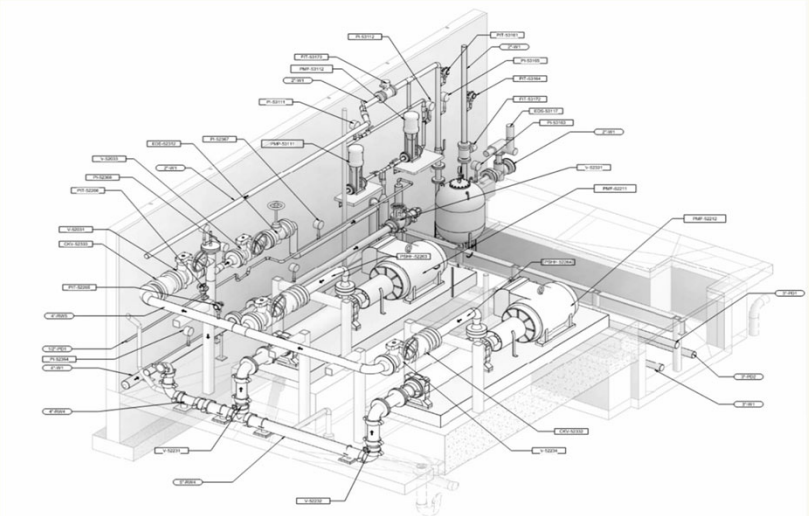
Water System Improvements

- Rehabilitation to the Roaring Springs Pumphouse (RSPH) to supply raw water from the Roaring Springs source
- Raw and finished water pipelines between the North Rim water storage tanks (Tank Farm) and Roaring Springs Pumphouse for improved reliability and reduced repairs
- Rehabilitation of raw water pipeline between Roaring Springs Cave and the RSPH









North Rim Utilities – Project Overview - Water

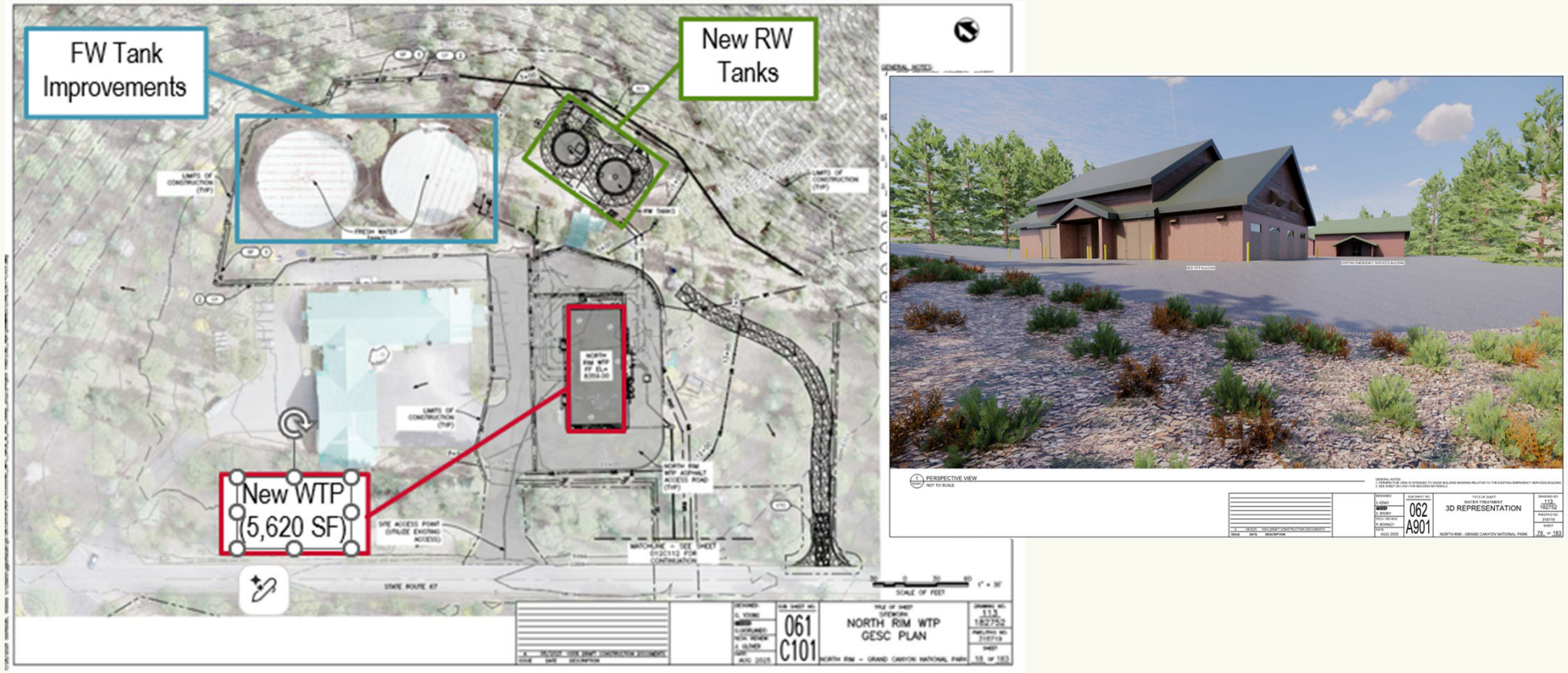
This project will address critical system deficiencies associated with water, wastewater, electrical, and communication systems, along with their associated equipment, components, and support structures. Infrastructure includes water (raw water, treatment, and distribution), wastewater conveyance, power and communications (standby power, overhead power, solar power, fiber communications).

Project Scope Includes:

Water Treatment Plant Modernization

- Replacement of the North Rim Water Treatment Plant (NRWTP) to meet current health and safety standards
- Membrane filtration-based potable water treatment process
- Construction of:
  - New raw water storage tank
  - Filtration and chemical treatment systems
  - Clearwell for disinfected water storage
  - Backup generator and full SCADA integration

North Rim Utilities – Project Overview - Water



North Rim Utilities – Project Overview – Wastewater & Power

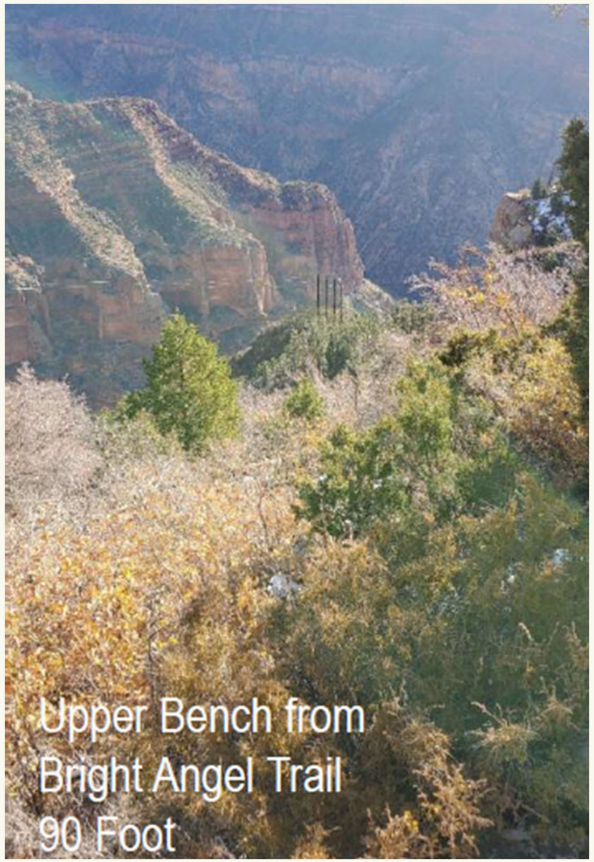
Wastewater System

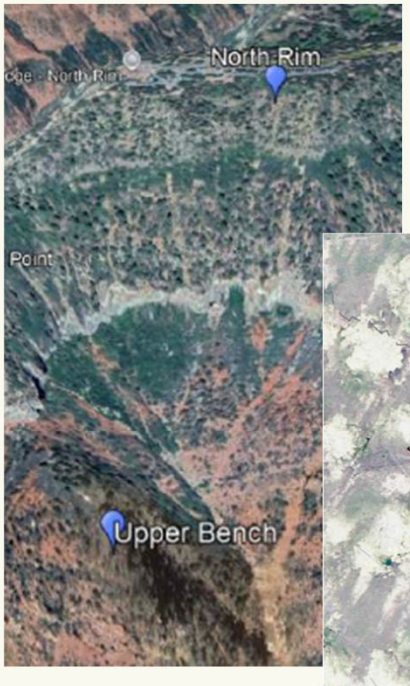
- Replacement of the sewer collection system

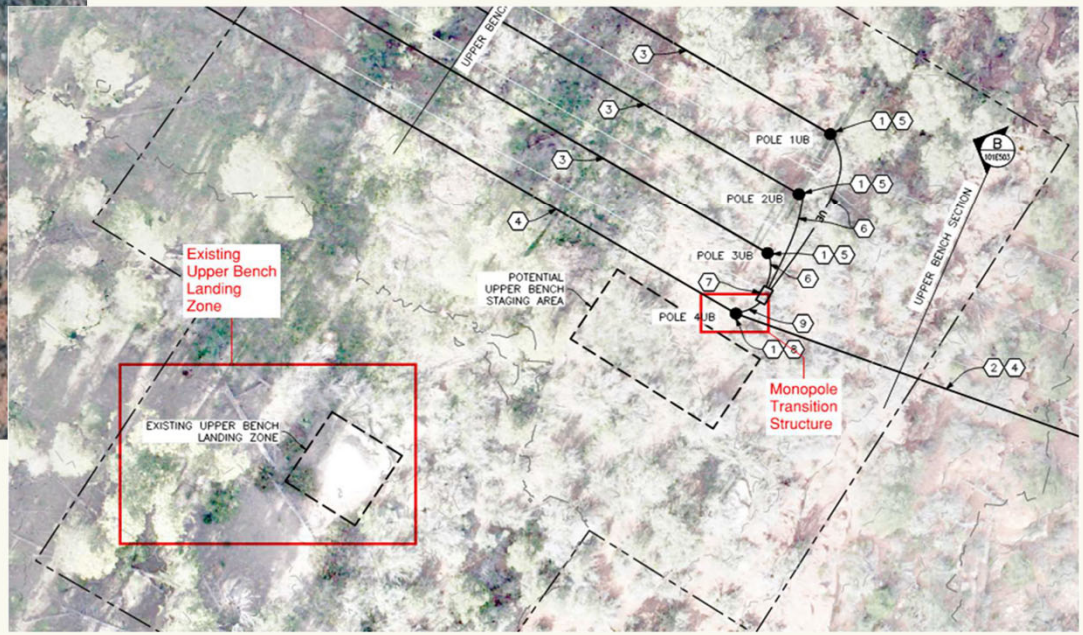
Power System

- Additional diesel fuel storage at Power Distribution Center to receive full deliveries and provide for longer outages
- Addition of fourth standby generator at Power Distribution Center
- Replacement of transformers which have exceeded life cycle at Power Distribution Center and throughout North Rim campus
- Replacement of junction boxes and shunt reactors in poor condition throughout North Rim campus
- Replacement of overhead power from North Rim to RSPH to increase life expectancy and reliability
- Replacement of underground power from RSPH to Manzanita
- Replacement of fiber communications from RSPH to Manzanita
- Replacement of defunct solar power system at Cottonwood Campground

North Rim Utilities – Project Overview –Power







North Rim Utilities – Project Overview – Water/Borehole

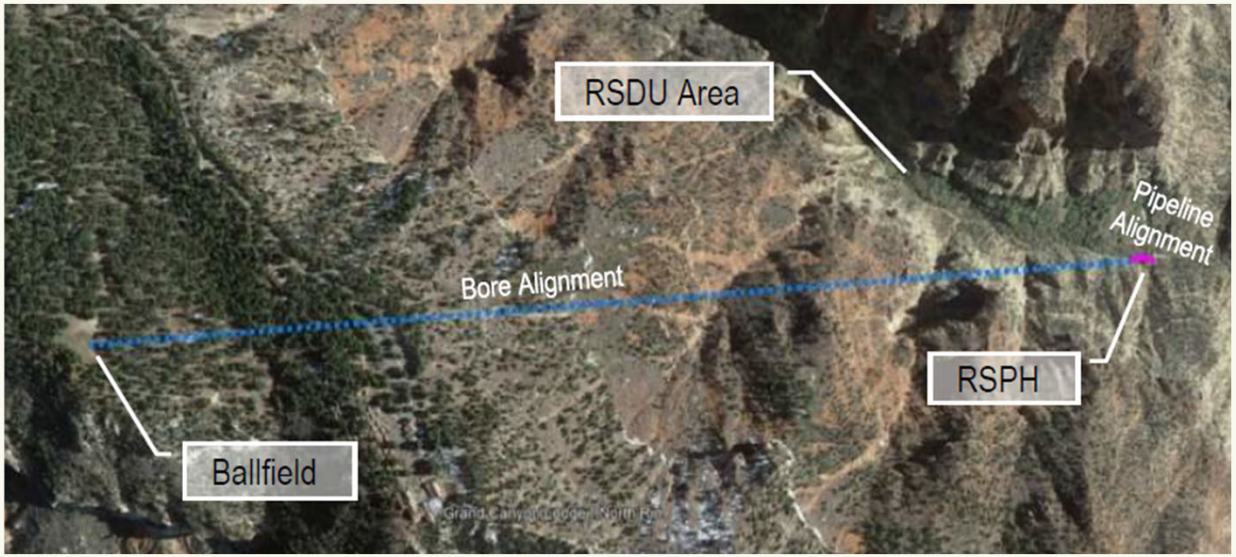
A key project component includes new boreholes to be directionally drilled from the North Rim to Roaring Springs Pump House with carrier pipes to include raw and potable waterlines. Two approximately 8-to-26-inch diameter, 9,260-feet-long boreholes will be drilled sequentially using vertical direction drilling, extending from the drill site (i.e., bore entry site) at the North Rim ballfield to the bore exit site just west of Roaring Springs Pumphouse in the inner canyon, where the borehole would daylight. The planned boreholes have a vertical length of 3,310 feet, a total measured length of 9,260 feet, and will be drilled through several Paleozoic geologic units of variable lithology with the potential for a variety of geologic risks

Project Scope Includes:

Bore Installation (Vertical Directional Drilling - VDD)

Includes:

- Bore pit preparation and staging at the North Rim
- VDD execution with telescoped casing and fiber optic installation
- Receiving pit setup and spoil containment at Roaring Springs
- All mobilization and helicopter-supported logistics for Inner Canyon access

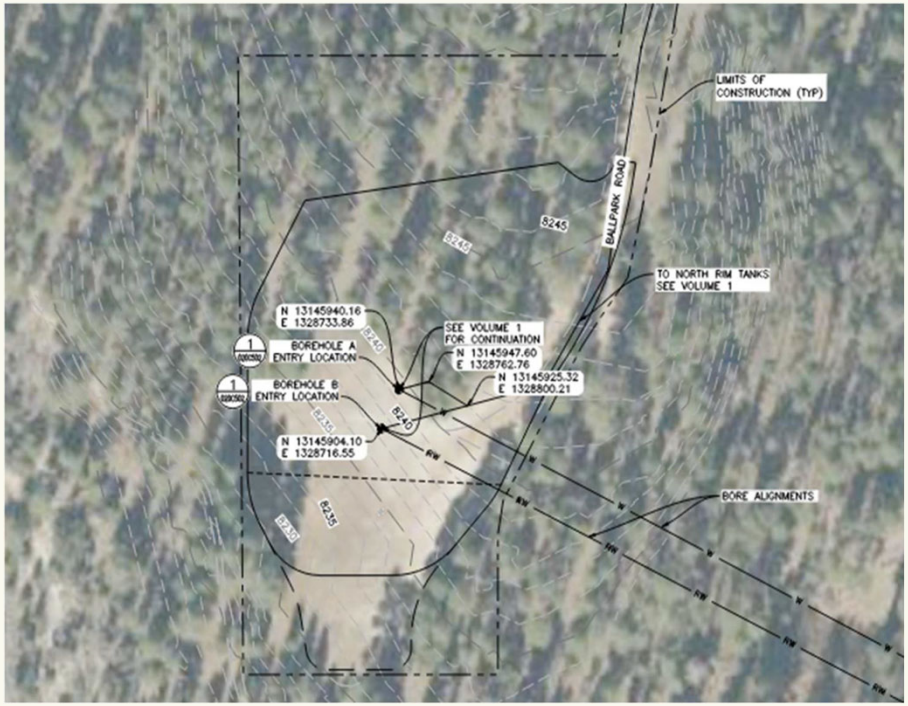


"Ballfield"

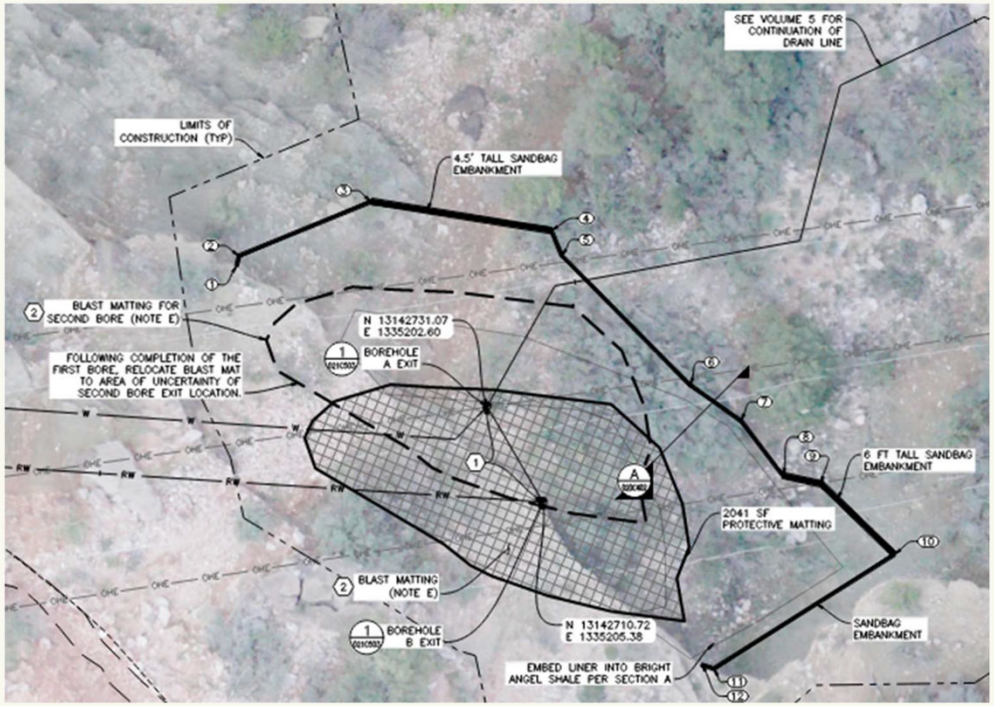
North Rim Utilities – Project Overview – Water/Borehole

Entry Site – Ballfield

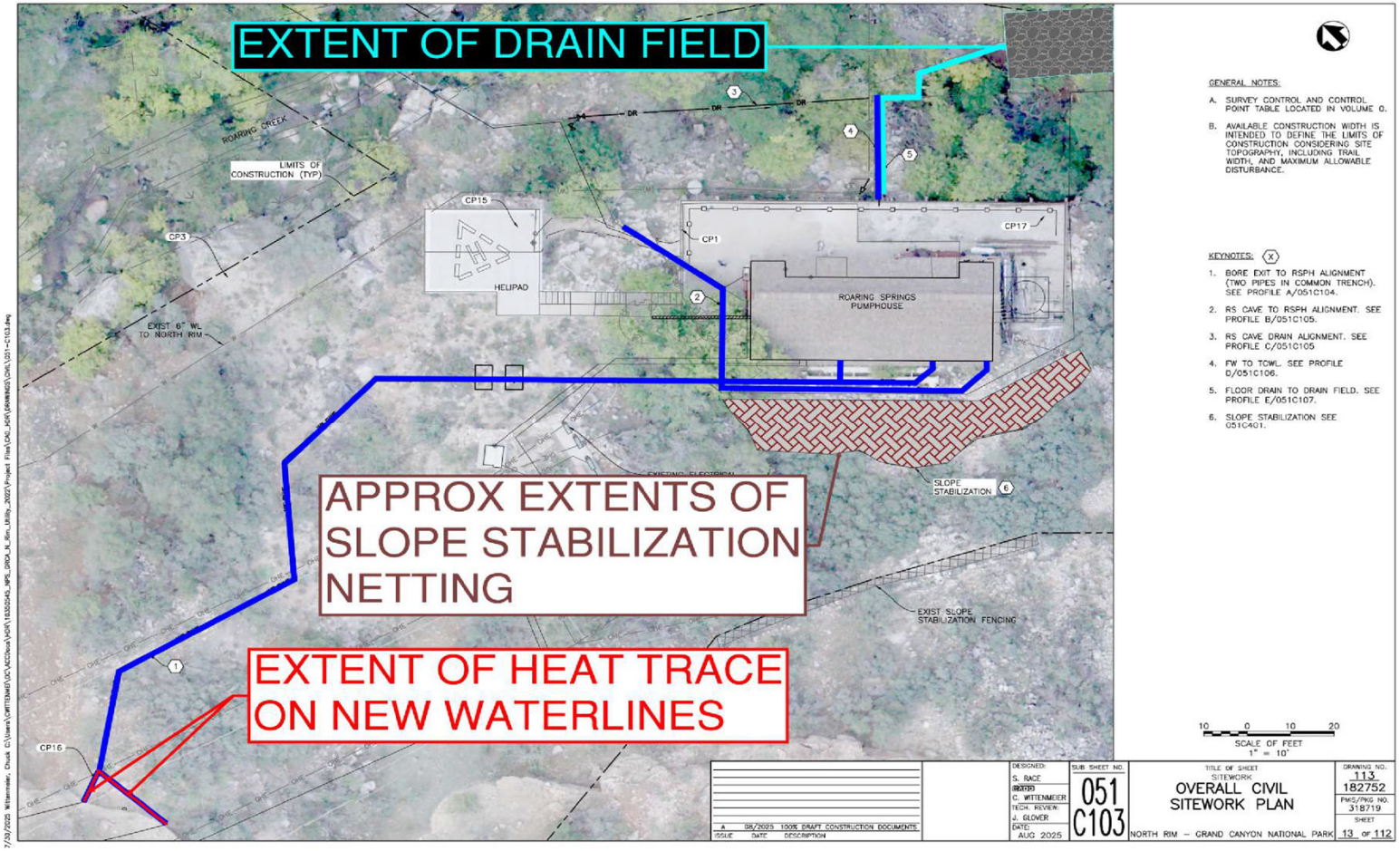
Includes: 2 boreholes



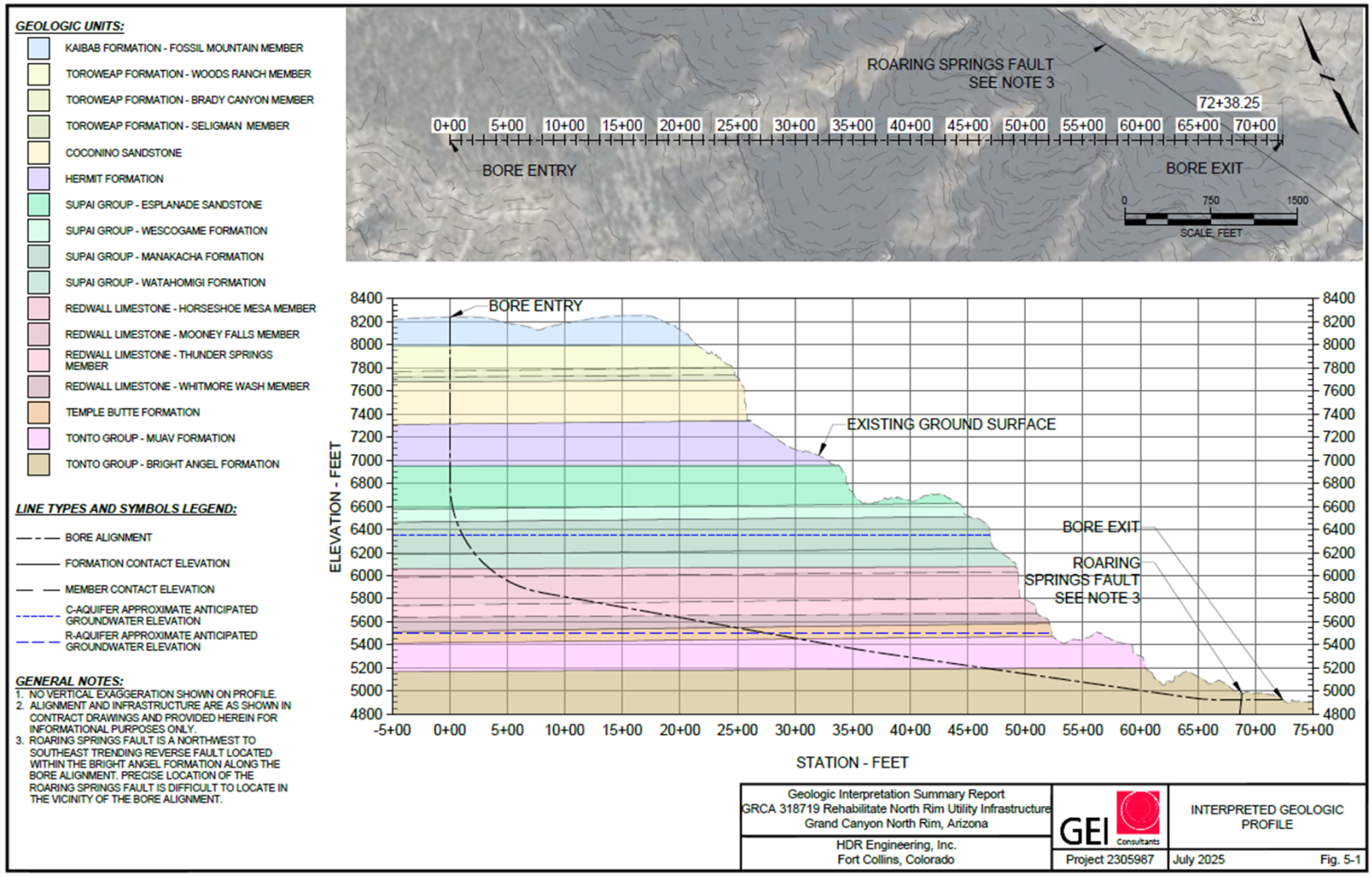
Exit Site – Roaring Springs Pump House



North Rim Utilities – Project Overview – Water/Borehole



North Rim Utilities – Bore Profile

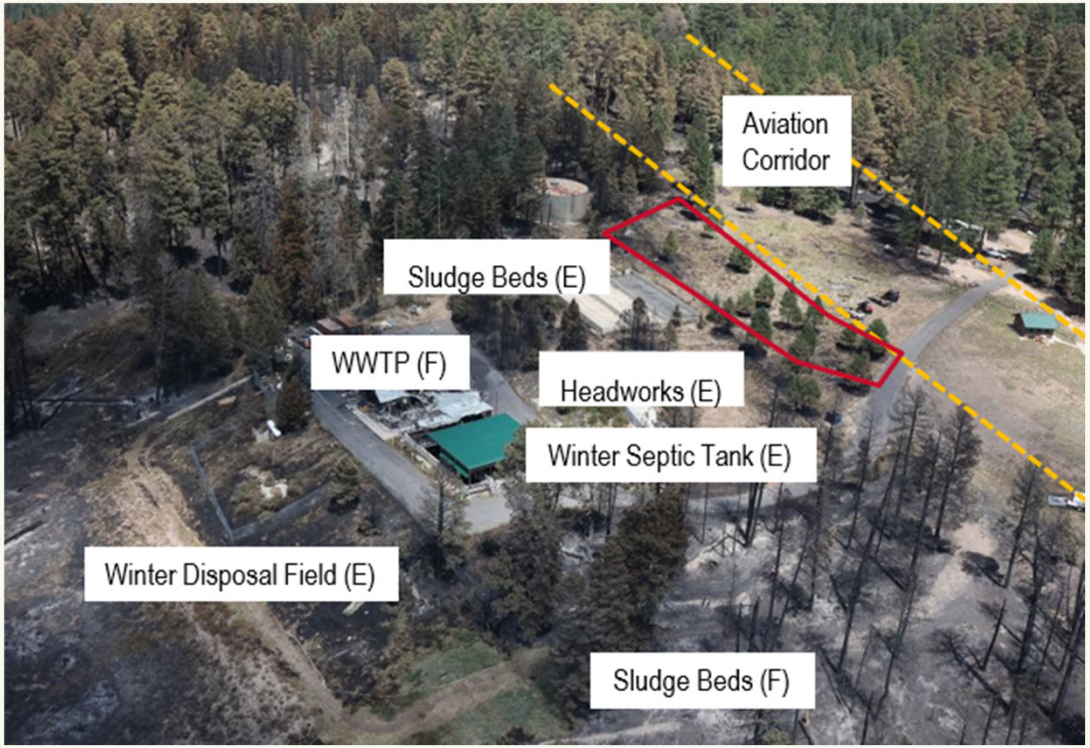


GRCA - 317819 North Rim Utilities – Temporary WWTP

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** $5-10M
- **Design & Construction Method:** Design – Bid – Build
  - One firm-fixed-price
- **Procurement Method:** Small Business Set-Aside
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: (completed April 2026)
  - Solicitation: Expected June 12, 2026
  - Onsite Pre-Bid Meeting: June 23, 2026 @ 10am
  - Award: Expected August 2026
- **Period of Performance:** June 1, 2027 (ultimate completion)
- **Construction Management Representative Services:** Call Order against standing Blanket Purchase Agreement for GRCA.

GRCA - 317819 North Rim Utilities – Temporary WWTP

The proposed project would install a temporary, packaged, 90,000 gallon per day (gpd) WWTP along the existing south fenceline of the WWTP (adjacent to the sludge drying beds) until a permanent WWTP can be constructed. The temporary packaged WWTP will include headworks, two 45,000 gpd MBR treatment units, an equalization tank with aeration and pumping system to the MBR units, and a treated effluent break tank and ultraviolet (UV) disinfection system. Temporary storage units would be installed for chemical storage and laboratory functions. On site utilities (yard piping/cabling) would be installed and connect to existing utilities.



GRCA - 317819 North Rim Utilities – Temporary WWTP

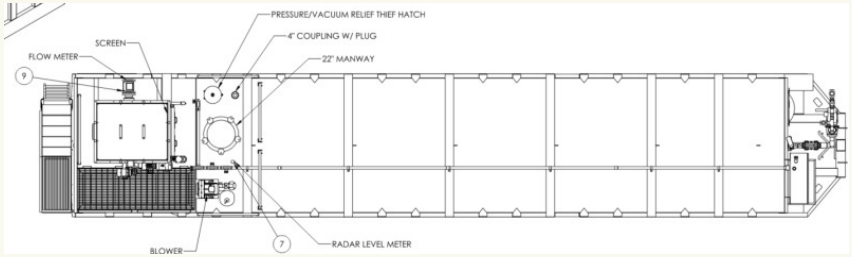
- WW Treatment System: Turn-Key Package Integrated System
  - Basis of Design Manufacture: Cloacina (CA, UT)
  - System Includes
    - Equalization Tank, Two MBR Treatment Units, UV Skid Disinfection
    - Each MBR Treatment Unit Independently Operates with Own HMI/PLC
    - Integrated EQ Tank Pumping System to the MBR Treatment Units
    - Gravity Flow to Break Tank – Gravity Flow Thru UV Treatment to Outfall

- Sanitary Sewer to Equalization (EQ) Tank
  - Components Process Flow
    - Diversion from SS to Septage Receiving Manhole
    - Mechanical Screening Unit with Bypass Bar Screen
    - Package Lift Station (Influent LS) Pumps to EQ Tank
    - Influent Lift Station Overflow to SS to Large Septic Tank
    - EQ Tank Aerates for Oder Control and Pumps to MBR Units

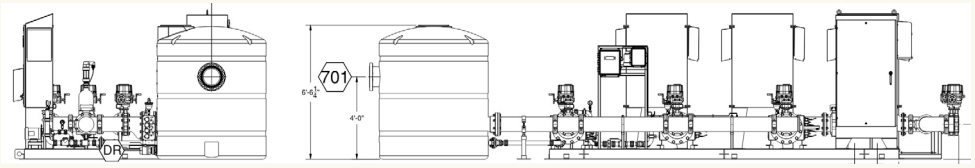
Generation 2

GRCA - 317819 North Rim Utilities – Temporary WWTP

- Site
  - Concrete Pads: MBR Tanks, EQ Tank, Break Tank & UV Skid
  - Crushed Rock for Drainage
  - Security Fence with Multiple Gate Access
- Chemicals
  - Conditioned Shipping Containers, Two Units, Two Rooms/Unit
  - Three Rooms: Chemicals, One Room: Spare Parts Storage, Winter Storage
  - System Includes
    - Three Chemical Rooms, Eyewash Stations
    - On Spare Parts Storage and Winter Equipment Storage Room
- Portable Certified Wastewater Lab
  - 8ft x 40ft Portable Container
    - Conditioned Space with Lab Mechanical Equipment (Hood Vent)
    - Power, Sewer, Water
- SCADA
  - No Remote Monitoring Until LRF Project SCADA Work is Completed
    - Install Fiber WWTP to Water Treatment Plant for Back Communication thru RSPH to SR
  - Location Control, Observation, Alarm HMI/PLCs at Each MBR Unit
    - Housing Area for Operators is Walking Distance

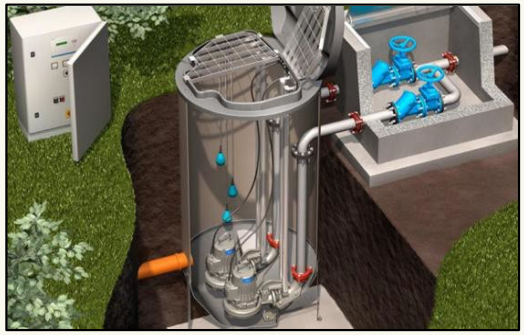


EQ Tank

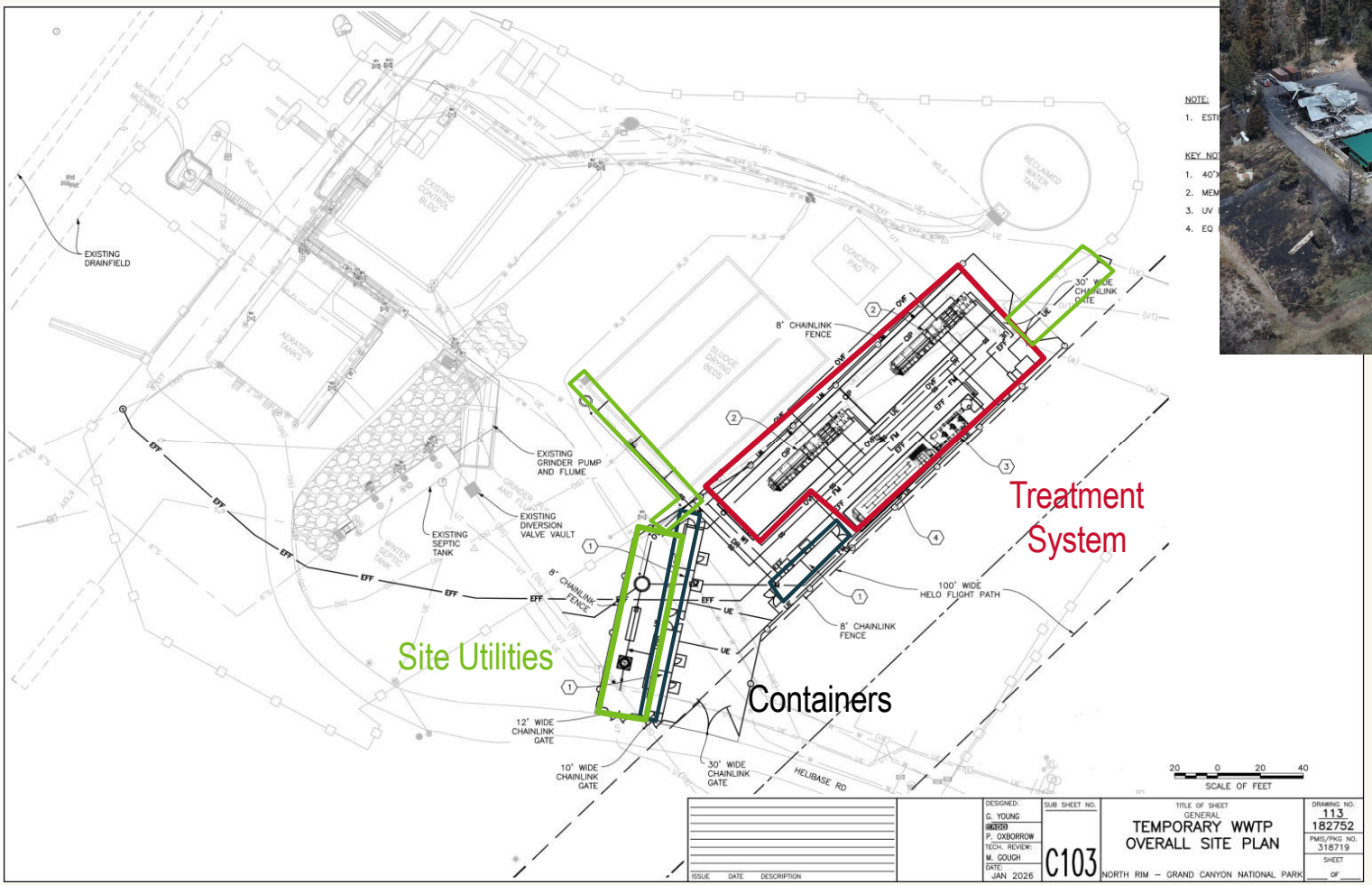


Break Tank **UV Skid**

Package Pump Station

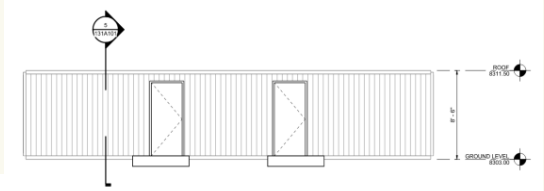


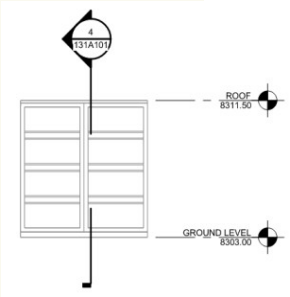
Overview of Scope

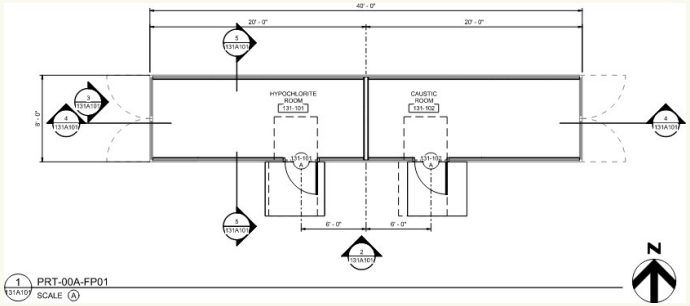


Storage Units

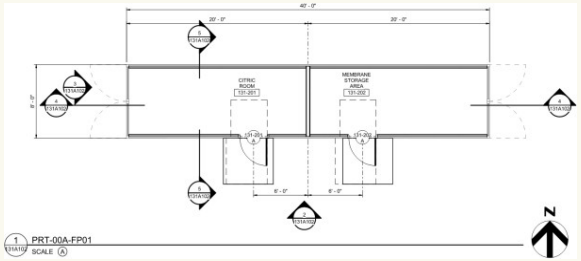
- Two 40’ Connex Trailers
  - Sodium Hypochlorite Room & Caustic Room
  - Citric Acid Room & Parts/Eqp. Storage Room
- Trailers will be modified to include separate rooms, HVAC, plumbing, and electrical components.



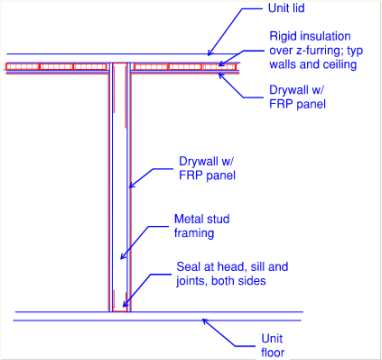




Chemical Storage



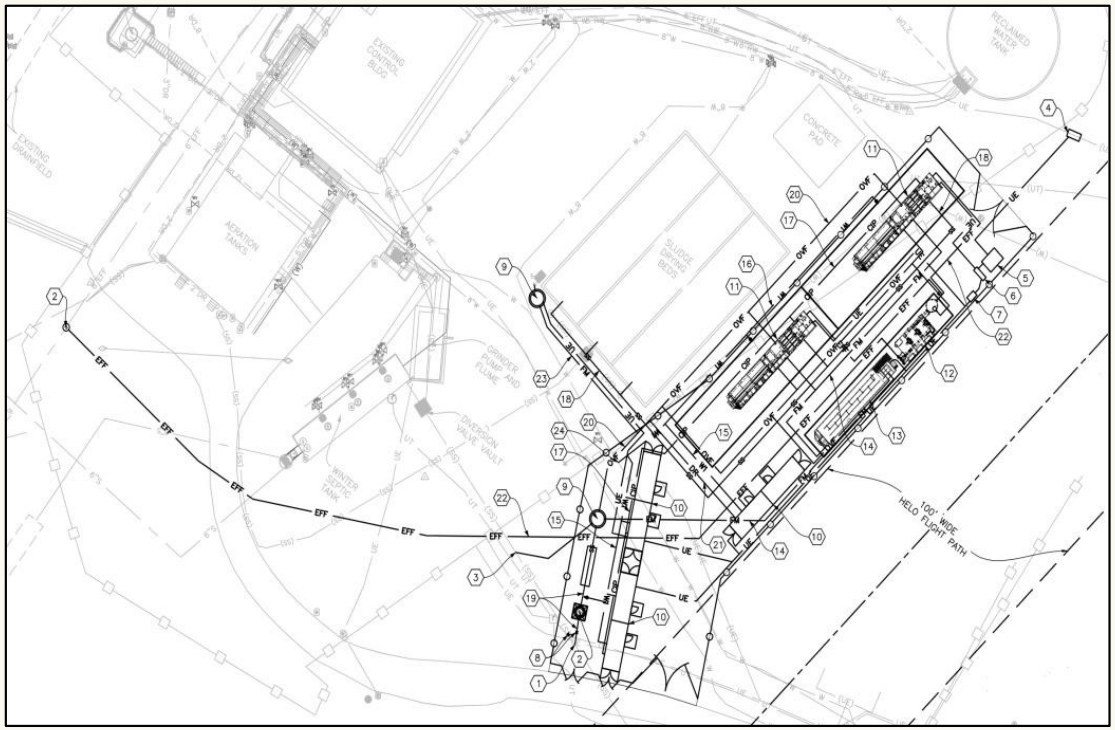
Chemical Parts-Winter Storage



Construction Sequencing

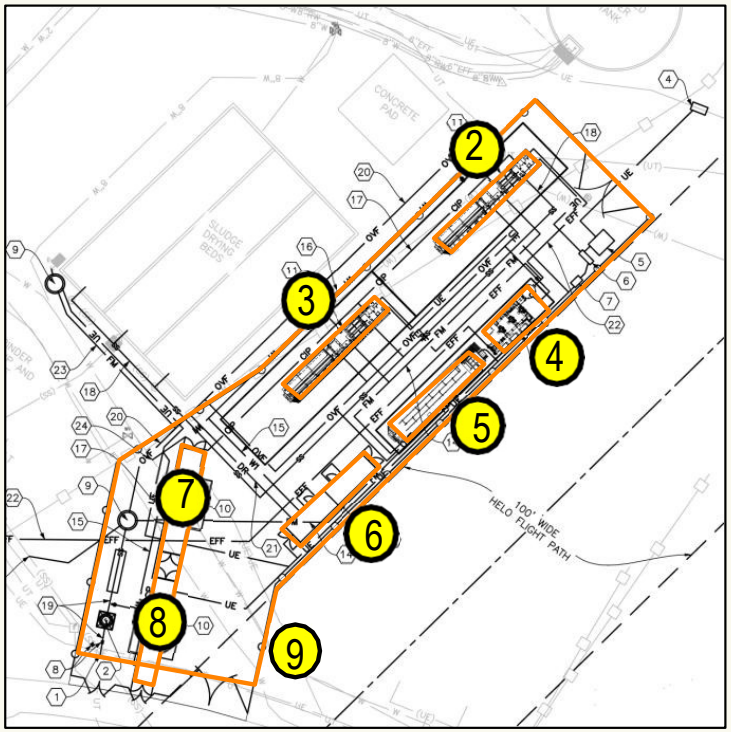
Phase I – Fall 2026

1 **Grading - Utilities**



Phase II – Spring 2027

Units – Storage - Fence



GRCA - 317819 North Rim Utilities – Permanent WWTP

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** $50-100M
- **Design & Construction Method:** Design – Bid – Build
  - One firm-fixed-price
- **Procurement Method:** To be determined
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: Summer 2027
  - Solicitation: Fall 2027
  - Award: Early Spring 2028
- **Period of Performance:** 3 years
- **Construction Management Representative Services:** Call Order against standing Blanket Purchase Agreement for GRCA

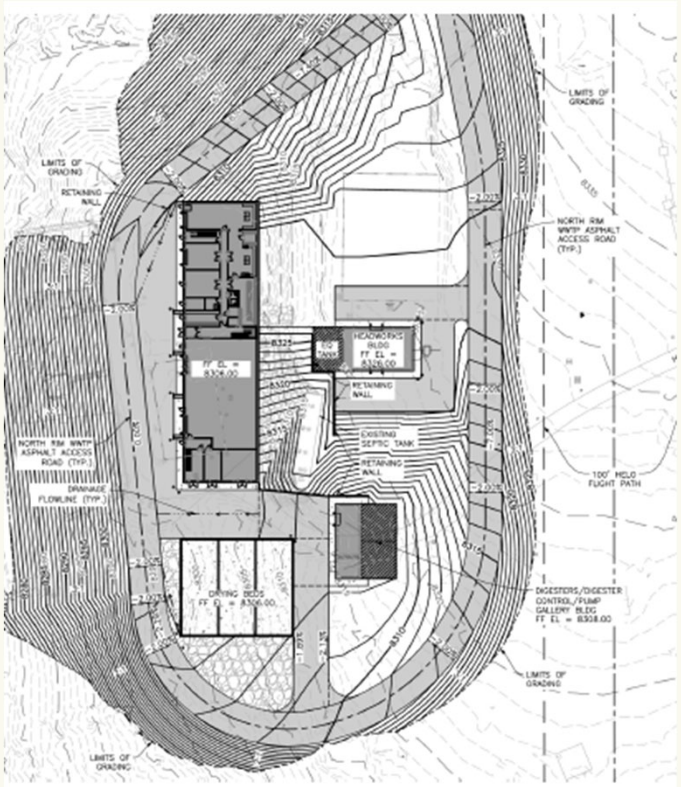


Figure 1. North Rim WWTP Schematic Design Conceptual Site Plan

GRCA - 317819 North Rim Utilities – Permanent WWTP

Project Scope Includes:

Treatment Technology: MBR (Membrane Bioreactor)

- Total Treatment Capacity: 127,000 gpd

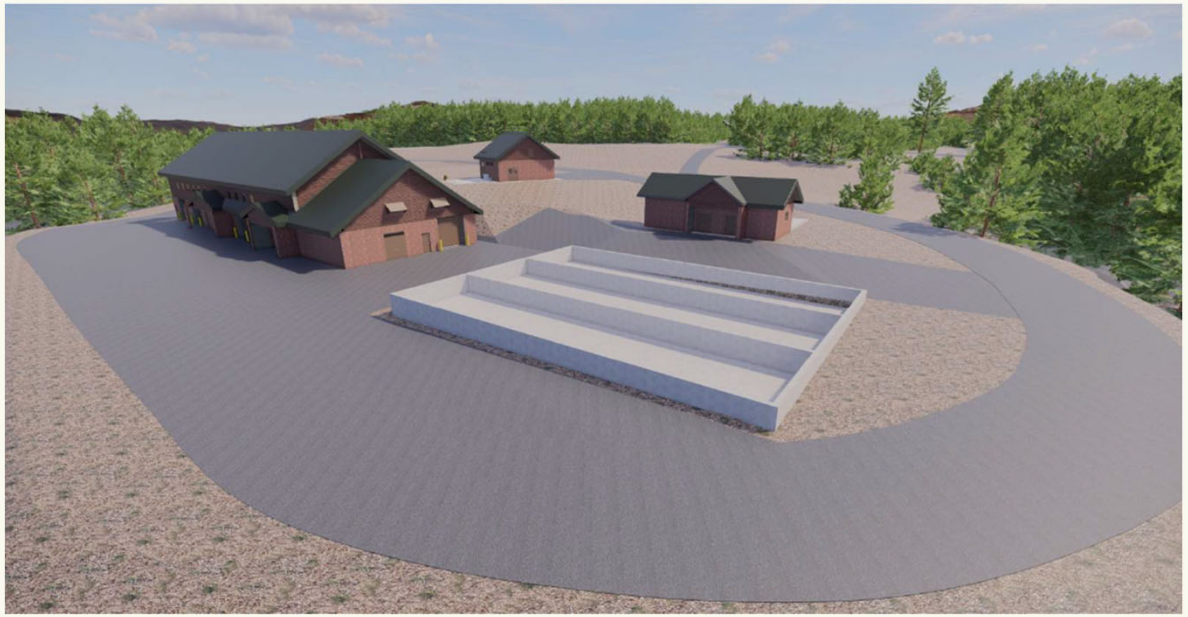
Three Building Configuration:

- New combined Control and Secondary Treatment Building, New Headworks

Building, New Solid Digestion Building

- Digesters in separate structure to reduce O&M power load from classified space

30% Schematic Design Concept



GRCA 352119 North Rim Critical Utility Restoration

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** Between $1M and $5M
- **Design & Construction Method:** Performance Work Statement (PWS) contract documents
  - One firm-fixed-price construction contract
- **Procurement Method:** 100% set-aside for Indian Small Business Economic Enterprises (ISBEEs) via Bureay of Indian Affairs Construction – Multiple Award Contract (C-MAC)
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: (completed Mar 2026)
  - Solicitation: Expected early-July 2026
  - Award: Expected late-Aug 2026
- **Period of Performance:** To Be Determined; emphasis on Fall 2026 with final completion in Spring 2027
- **Construction Management Representative Services:** Call Order against standing Blanket Purchase Agreement for GRCA.

North Rim Critical Utility Restoration – Project Overview

This project will test, repair, restore, and place into operational service existing wastewater, potable water and electrical power utility systems in the North Rim developed area to support the NPS goal of opening portions of the North Rim to the public and providing limited visitor services and amenities starting in 2026 to the extent possible, where possible and when possible, as it is safe to do so. Work includes restoration of applicable system supervisory control and data acquisition systems (SCADA)/radio/communications infrastructure.

Project Scope Includes:

Repair and Restore Electrical Power Distribution System:

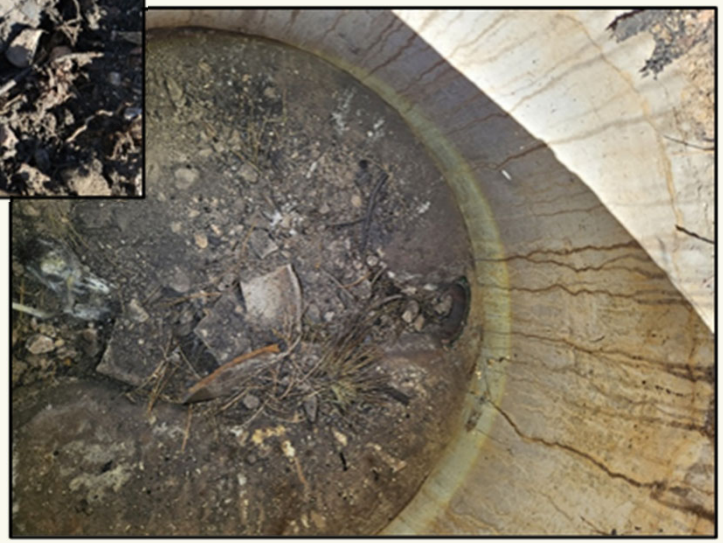
- Removal of transformers
- Testing of generators, generator stand-by system (multiple generators on ATS,) medium voltage cables, & transformers
- Replacing system components
- Re-energizing Distribution System (confirm power supply to lift stations/pumps prior to initiating wastewater/water system work)

North Rim Critical Utility Restoration – Project Overview

<u>Project Scope Includes</u>:

Repair and Restore Wastewater Collection System:

- Repair damaged infrastructure.
- Inspect manholes to remain in service and remove debris.
- Abandon lines and services.
- Return lift stations to service
- Flush sewer pipes
- CCTV inspect sewer pipes



North Rim Critical Utility Restoration – Project Overview

<u>Project Scope Includes</u>:

Repair and Restore Water Distribution System:

- Repair damaged infrastructure
- Install system improvements
- Fill and repressurize system
- Flush System

GRCA 353101 North Rim Heavy Equipment Facility

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** Between $10M and $50M
- **Design & Construction Method:** Design-Build Program of Requirements (anticipated)
  - One firm-fixed-price contract
- **Procurement Method:** TBD
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: Expected early CY 2027
  - Solicitation: Expected CY 2027
  - Award: Expected CY 2027
- **Period of Performance:** TBD
- **Construction Management Representative Services:** TBD

North Rim Heavy Equipment Facility – Project Overview

This project will replace certain facilities lost in the Dragon Bravo fire in order to resume safe, efficient and effective administration and operations on the North Rim. Due to the North Rim's climate, snow removal and over-snow equipment is an essential part of North Rim operations and the housing and maintenance of that and similar equipment is critical to the park.

Project Scope Includes:

Design-Build of a new Heavy Equipment Facility to be located in the North Rim Developed area with the following requirements:

- House and support the operation and maintenance of various types of vehicles and heavy equipment including snow removal equipment, over-snow equipment, road maintenance and construction equipment and various specialized NPS vehicles.
- Support 12 - 14 vehicle bays plus a vehicle maintenance shop with a vehicle lift, a welding shop to support vehicle and equipment maintenance, and a limited amount of interior conditioned space to support functions such as NPS staff offices, employee restrooms, a break room, and similar spaces.

GRCA 257282 Replace South Rim Wastewater Treatment Plant

- **Location:** Grand Canyon National Park, Arizona
- **Magnitude of Construction:** Greater Than $100M
- **Design & Construction Method:** Design – Bid – Build
  - One firm-fixed-price contract with a single period of performance
- **Procurement Method:** Full & Open
- **Anticipated Dates (Approximate):**
  - Sources Sought Posting: (completed 2025)
  - Solicitation: Expected Summer 2026 (posted 90days)
  - Award: Expected 1Q CY 2027
- **Solicitation #:** TBD
- **NAICS:** 237990
- **Period of Performance:** Approximately 36 months
- **Construction Management Representative Services:** Call Order against standing Blanket Purchase Agreement for GRCA.

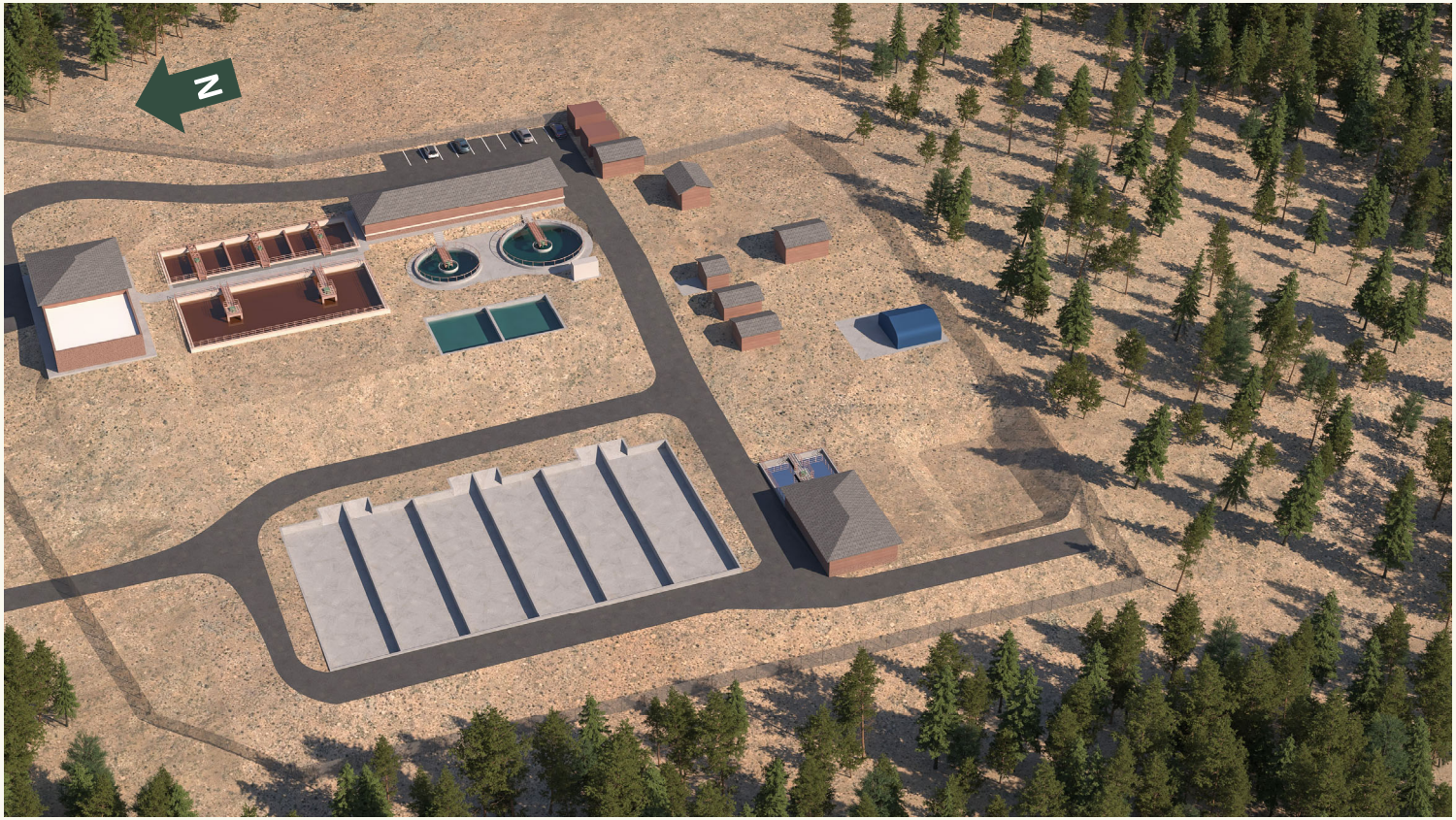
South Rim WWTP – Project Overview

This project will replace the 1970s WWTP to improve treatment efficiency & meet current standards.

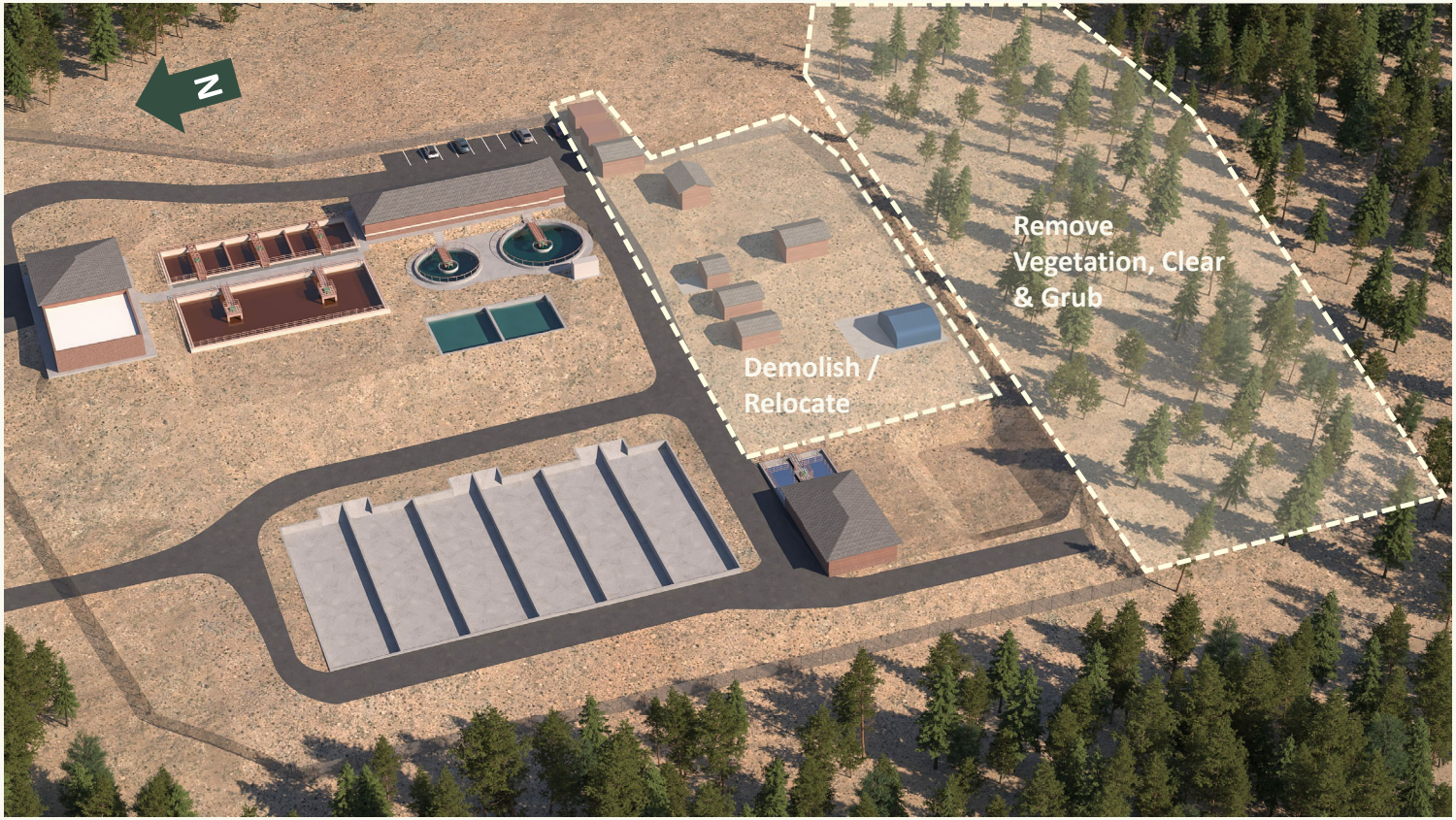
Project Scope Includes:

- The wastewater processes will be designed for a for a 0.65 MGD max monthly flow and 1.2 MGD peak hour flow
- Treatment based on MBR technology
  - Class A+ reclaimed water
  - Class B biosolids w/ small Class A biosolids stream (composting)
- Construction of new admin, laboratory and maintenance facilities
- Construction of new electrical service and new emergency generator
- Construction and phasing of new facilities, while maintaining uninterrupted operation of the existing plant throughout construction and commissioning period
- Completion of tie-ins to existing wastewater influent manhole and effluent discharge
- Demolition of all existing structures including process structures, buildings, and all supporting systems
- Construction of a new paved access road generally following the route of an existing two-track dirt road.
  - The road will be used as the primary contractor route to the SR WWTP and adjacent staging area (constructed as part of this project).
- ADEQ Permit has been issued.

WWTP – Existing Facilities



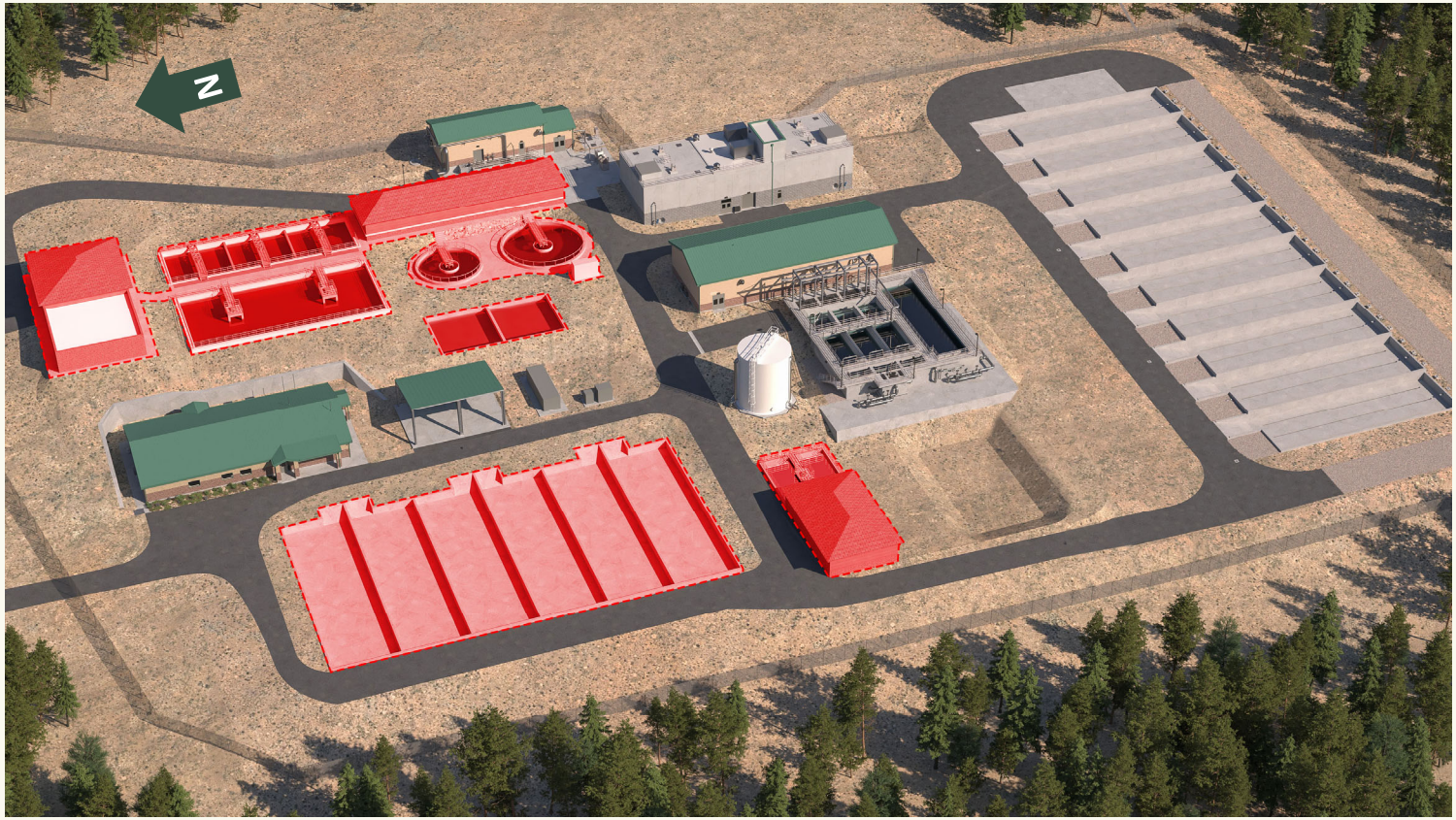
WWTP – Demolition / Relocation / Site Prep



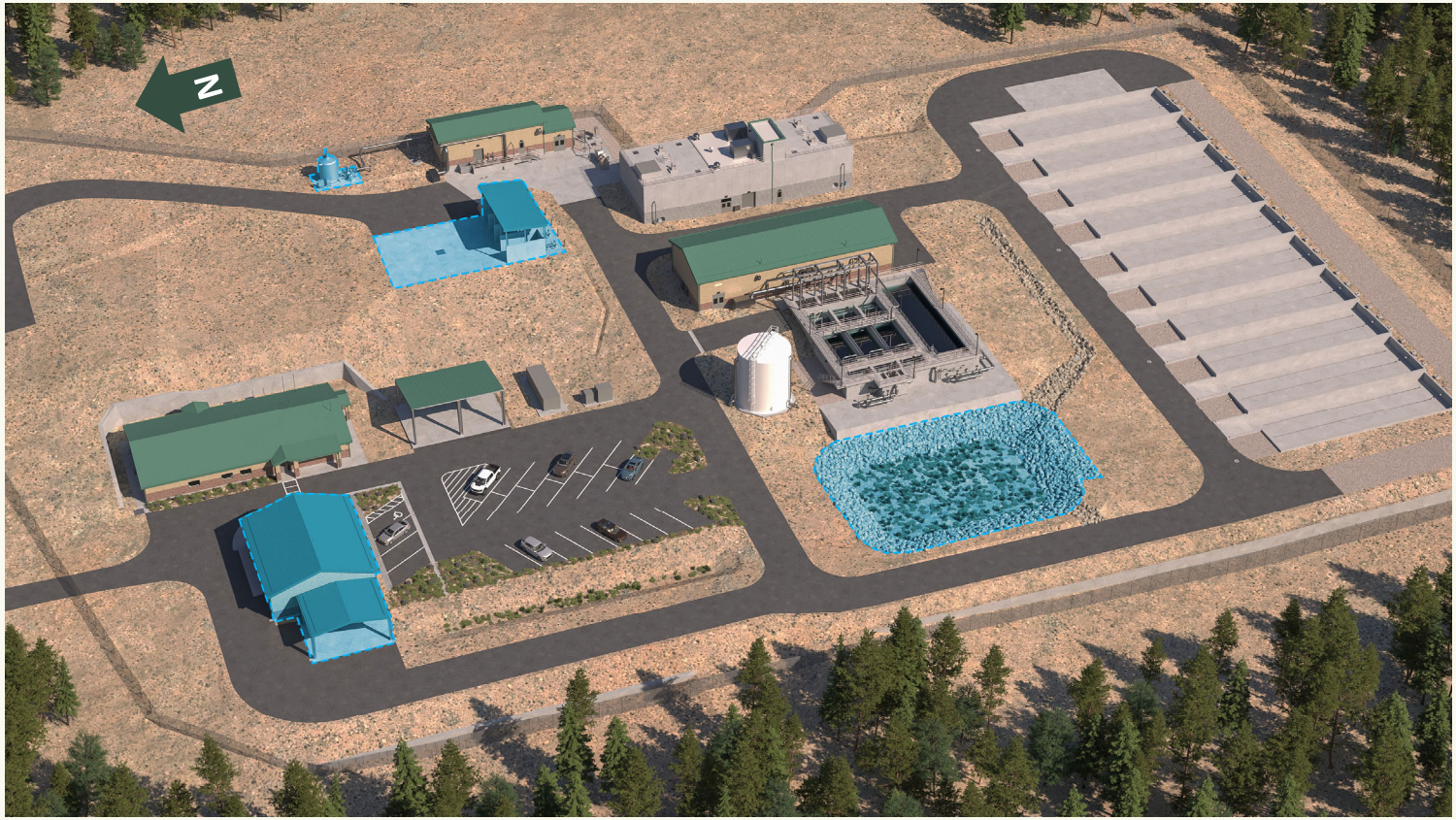
WWTP – Phase 1 of 4 - Construction of New Facilities

WWTP – Phase 2 of 4 - Commissioning, Demonstration Testing and Transition of Operation to New Facilities

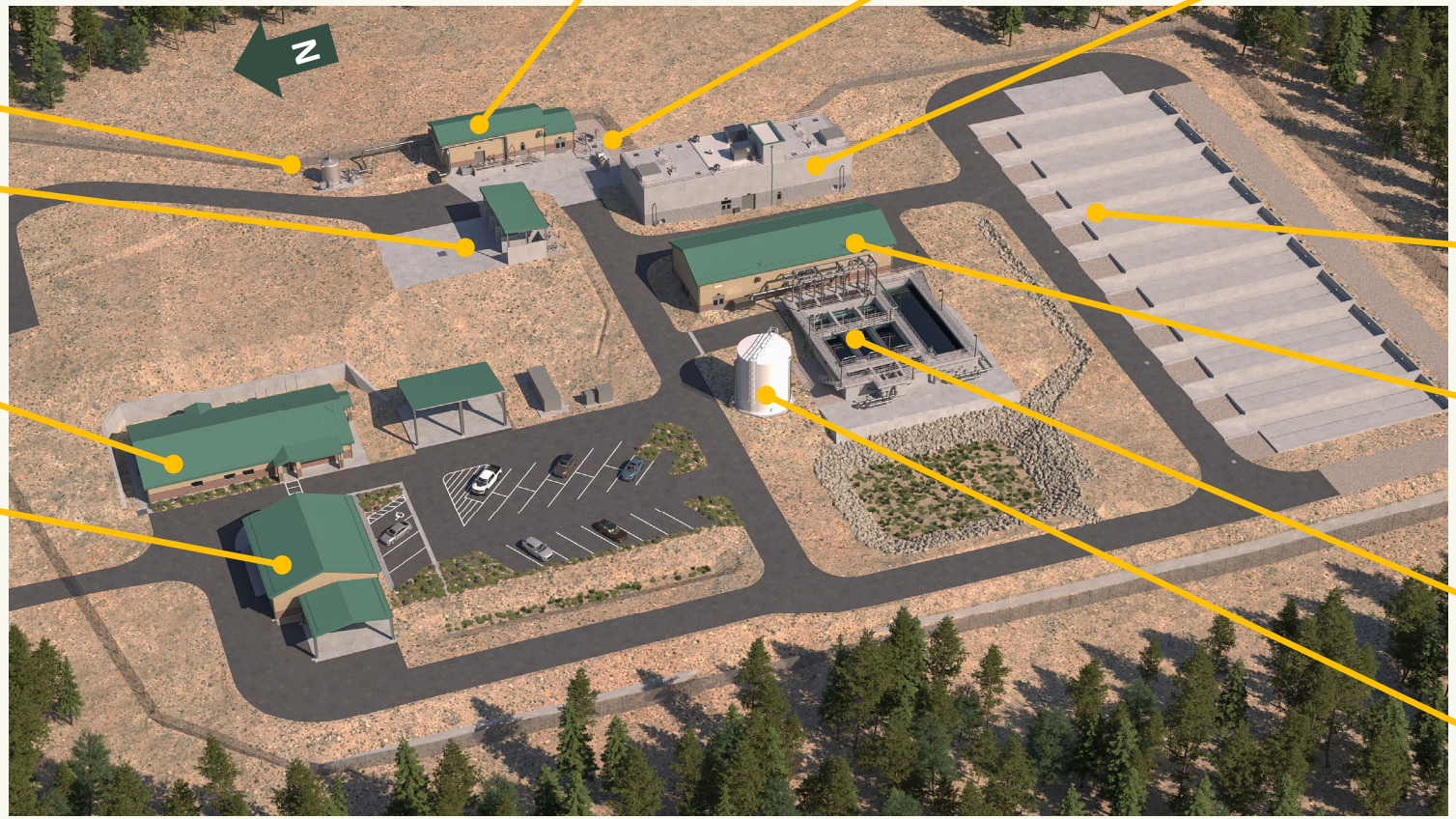
WWTP – Phase 3 of 4 - Demolition of Existing WWTP



WWTP – Phase 4 of 4 - Construction of Remaining New Facilities



WWTP – Overall Site Plan – Completed Project



Questions & Survey Request

- Direct all questions to the DSC Contracting Office in writing following the event.
- Points of Contact
  - NR Utilities (GRCA 318719):
    - Contracting Officer: Jim Waller; james_waller@ios.doi.gov
    - Contracting Specialist: Kristin Tauber; kristin_tauber@ios.doi.gov
  - NR Critical Utilities Restoration (GRCA 352119):
    - Contracting Officer: Jason Longshore; jason_longshore@ios.doi.gov
  - NR Heavy Equipment Maintenance Facility (GRCA 353101):
    - Contracting Officer: Jason Longshore; jason_longshore@ios.doi.gov
  - SR WWTP (GRCA 257282):
    - Contracting Officer: Tim Burger; timothy_burger@ios.doi.gov
    - Contracting Specialist: Kristin Tauber; kristin_tauber@ios.doi.gov
- **Survey Request:**
  - **DSC Contracting Office is requesting survey response from all potential Contractors and Sub-Contractors.**
  - FEEDBACK provided to NPS will be considered confidential and not shared outside of DSC Design Team. A formal survey request will be included in a special notice posted to 140P2026R0080

Interested parties must review the requirements as posted in each solicitation.

Thank you