

Nampa Wastewater Treatment Plant

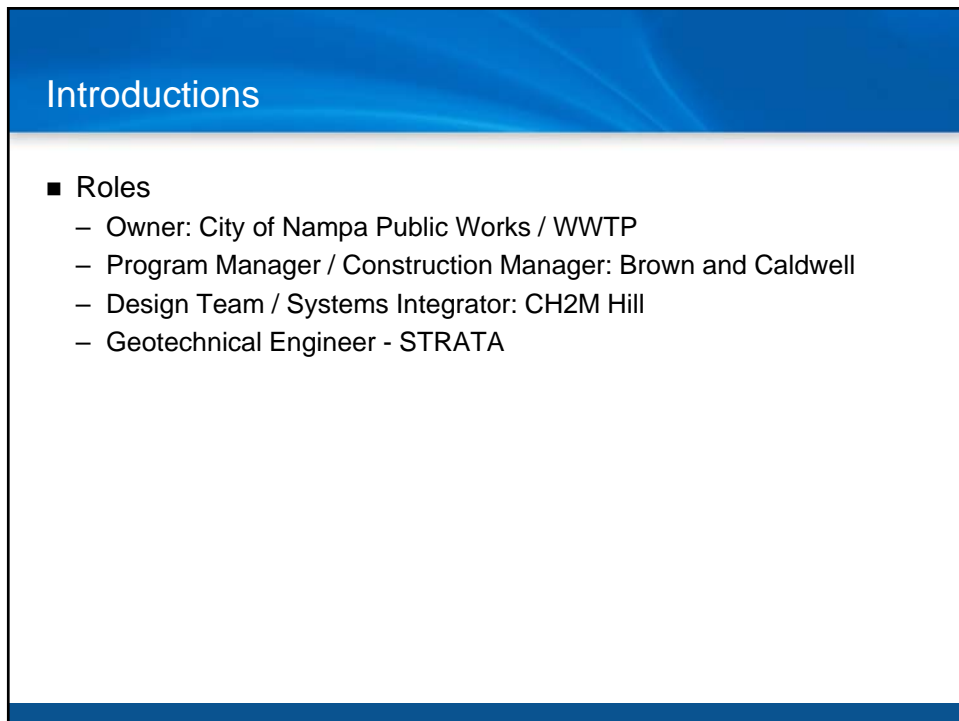
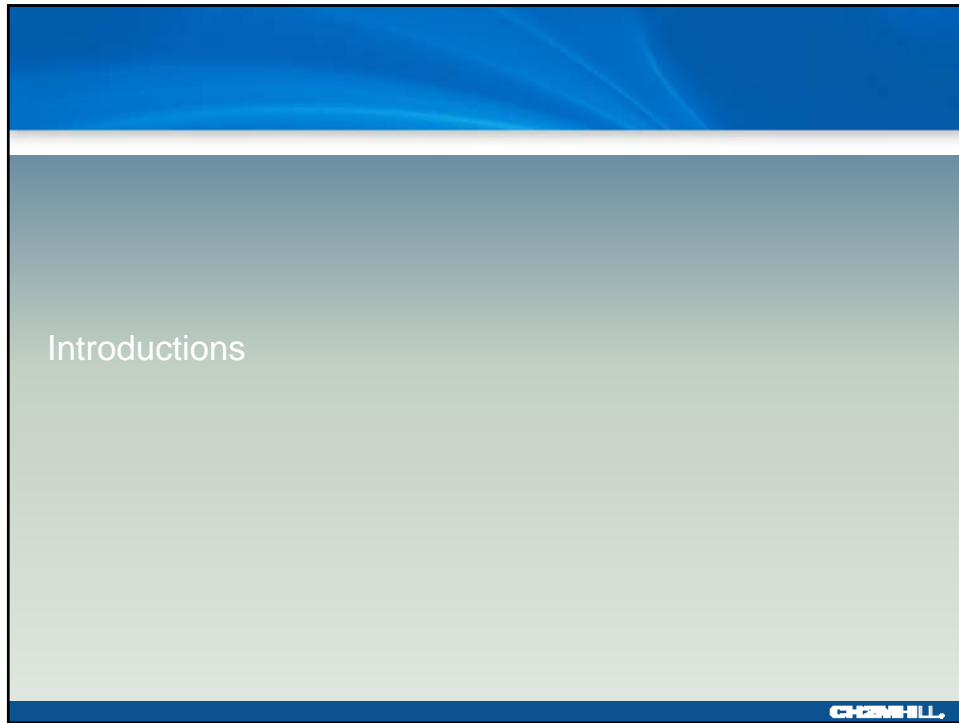
Phase I Upgrades: Group A – Liquid Stream Upgrades

Prebid – February 18, 2015



Agenda

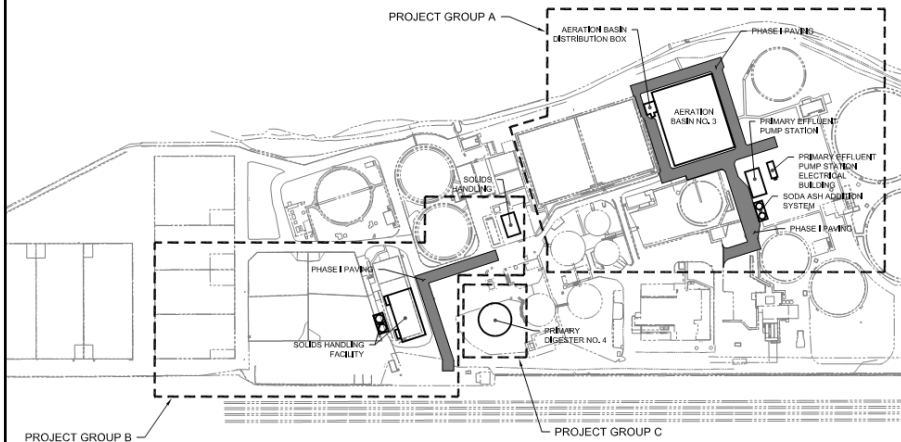
- Introductions
- Program Overview
- Critical Success Factors
- ~~Phase I Program Overview~~
- Deliverable Documents
- Facilities
- Schedule Constraints
- Construction Elements
- Project Administration
- Bidder Questions

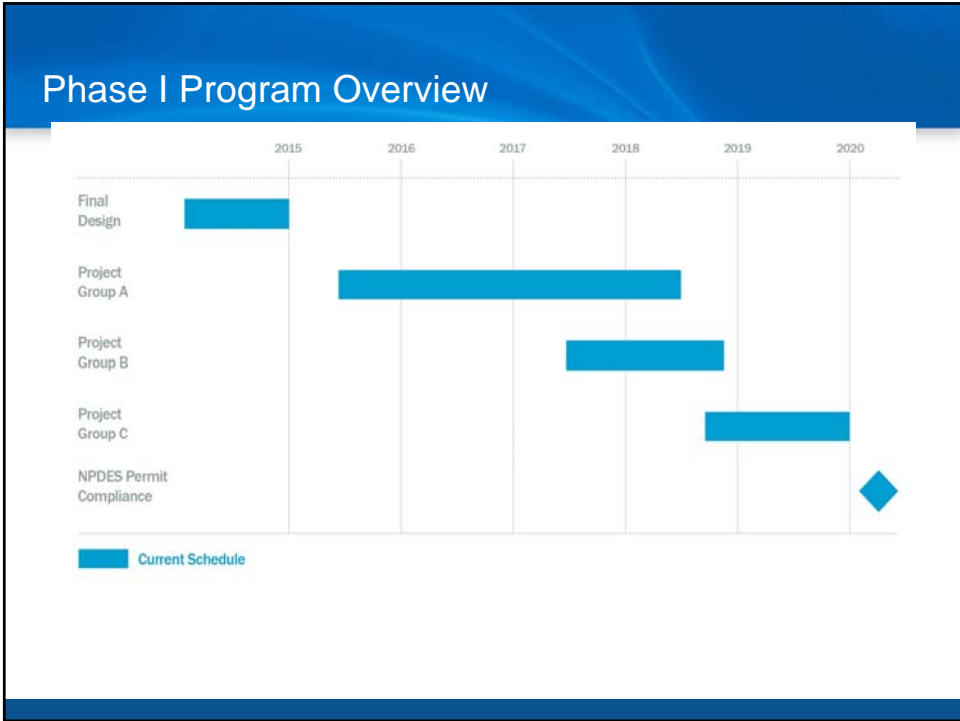


Program Overview

CH2MHILL

Phase I Program Overview





Critical Success Factors

CP-COMM-ILL

Critical Success Factors

- Upgrade the Nampa WWTP while maintaining capacity (BOD, TSS, Ammonia, TP) such that it is sufficient to meet future NPDES permit limits.
- Integrate all team members in the decision making process
- Thoroughly document decisions to limit risk of changing decisions
- Consider the long-term impacts of all decisions
- Minimize the impacts of construction on operations
- Have no permit excursions/violations as a result of the construction process
- Maintain an acceptable level of redundancy throughout the construction process
- Minimize the risk of litigation

Deliverable Documents

CONTRACT DOCUMENTS

CH2M HILL

Deliverable Documents

- Volume 1 – Specifications –
 - Procurement Requirements
 - Contracting Requirements
 - Conditions
 - General Requirements
- Volume 2 and 3 – Technical Specifications
- Volume 4 – Drawings
- Volume 5 – Standard Details
- Volume 6 – Supplemental Information
 - Geotechnical Reports by Strata, Inc.
 - Selected Drawings
 - Drainage Report

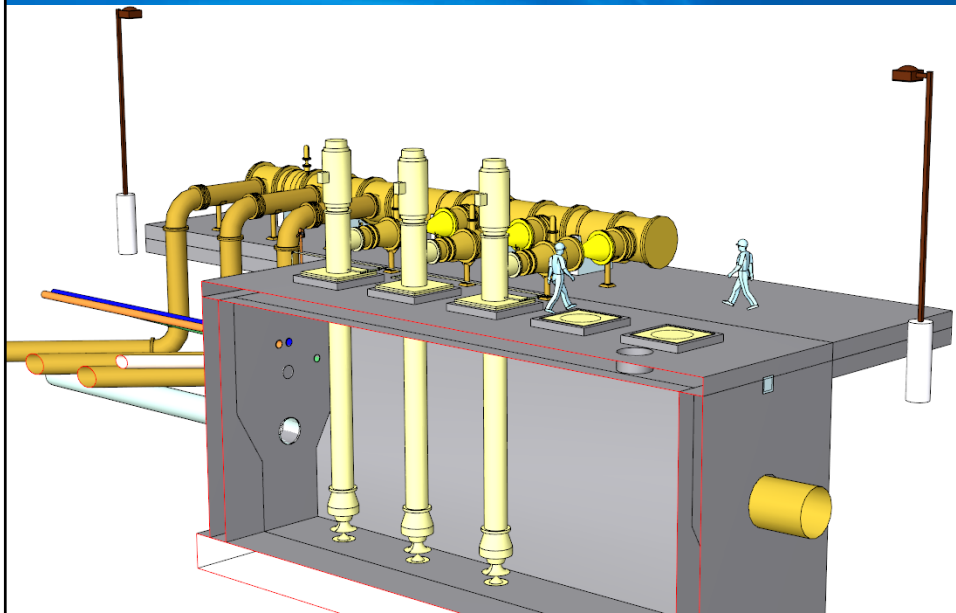
Deliverable Documents - Other

- PDF Spinners (informational only)
 - Aeration Basins
 - Primary Effluent Pump Station
 - PEPS Electrical Building
 - Site Yard Piping
- Historic Reference Drawings
 - Brown and Caldwell offices – 950 W. Bannock, Suite 350

Facilities

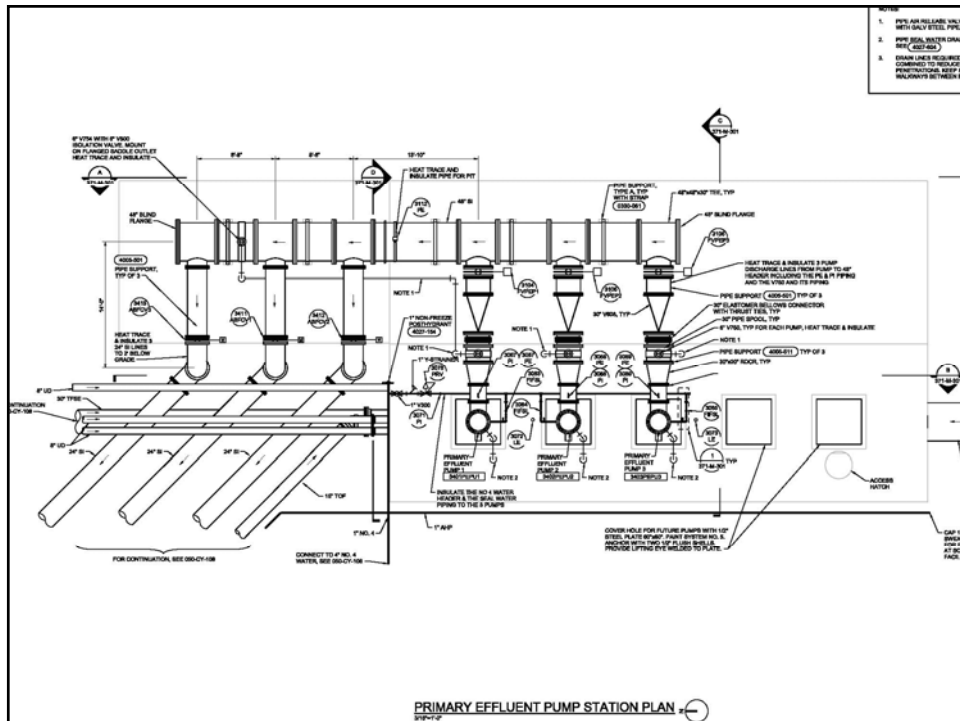
CH2MHILL

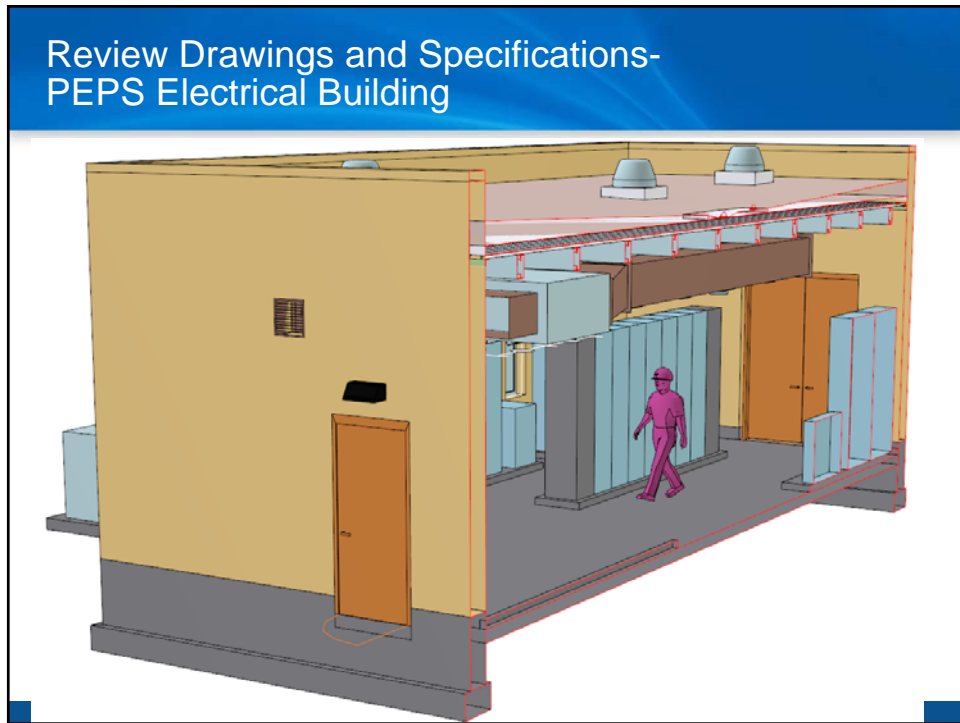
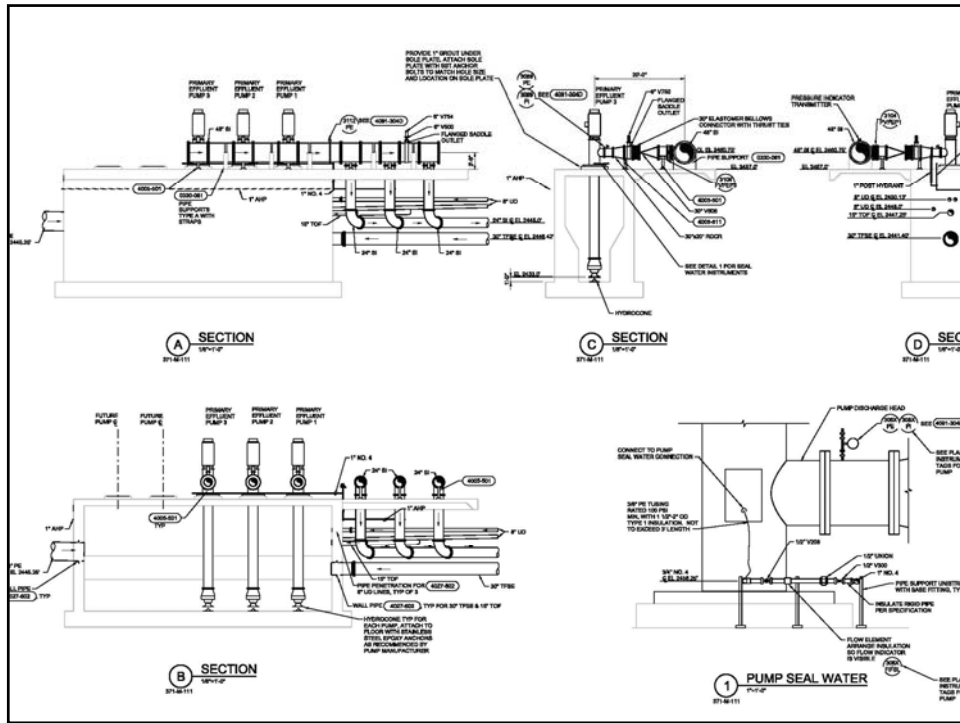
Primary Effluent Pump Station



Primary Effluent Pump Station

- New construction to partially replace Trickling Filter Effluent PS
- Major Elements
 - Three vertical turbine solids handling pumps
 - Electrical and mechanical systems
 - Major excavation and dewatering

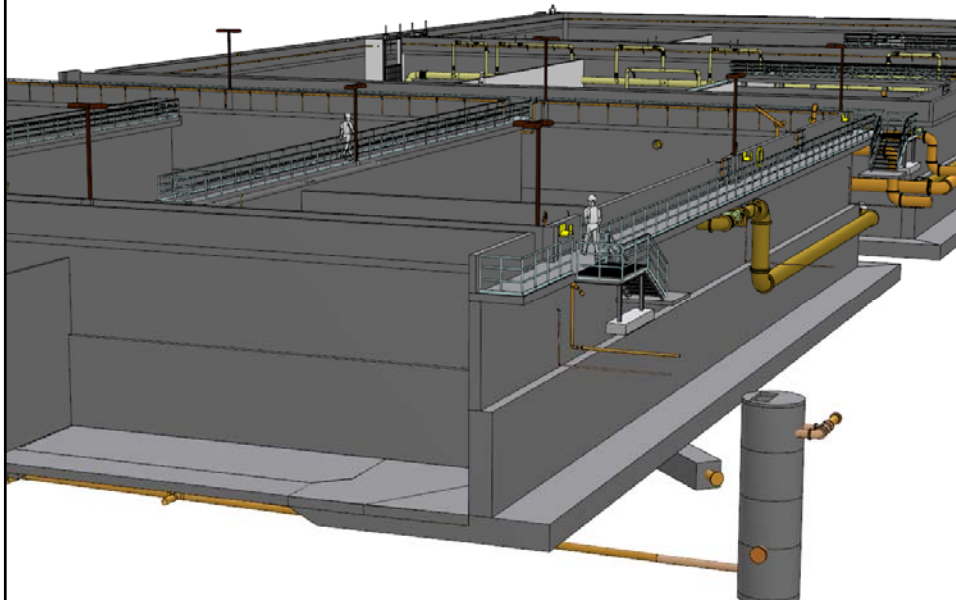




Review Drawings and Specifications PEPS Electrical Building

- New construction to provide power and controls for project
- Major Elements
 - Rerouted Primary Service Loop (conductors by Idaho Power)
 - Medium Voltage Transformer (by Idaho Power)
 - Motor Control Center
 - Programmable Logic Controller

Review Drawings and Specifications- Aeration Basins



Review Drawings and Specifications Aeration Basins

- Aeration Basin 3 is new construction to provide new capacity
- Aeration Basin 1 and 2 – Modified to provide nutrient control
- Major Elements
 - Non-aerated zone
 - Flexible aerated zone
 - Aerated zone
 - Electrical and mechanical systems
 - Major excavation and dewatering
 - New groundwater pumping station

Review Drawings and Specifications- Trickling Filter



Review Drawings and Specifications Trickling Filter

- Removing mechanism on Trickling Filter 1 and install on Trickling filter 2
- Major Elements
 - Removing mechanism on Trickling Filter 1
 - Install mechanism 1 on Trickling filter 2 after removing mechanism from filter 2.
- Filter Media

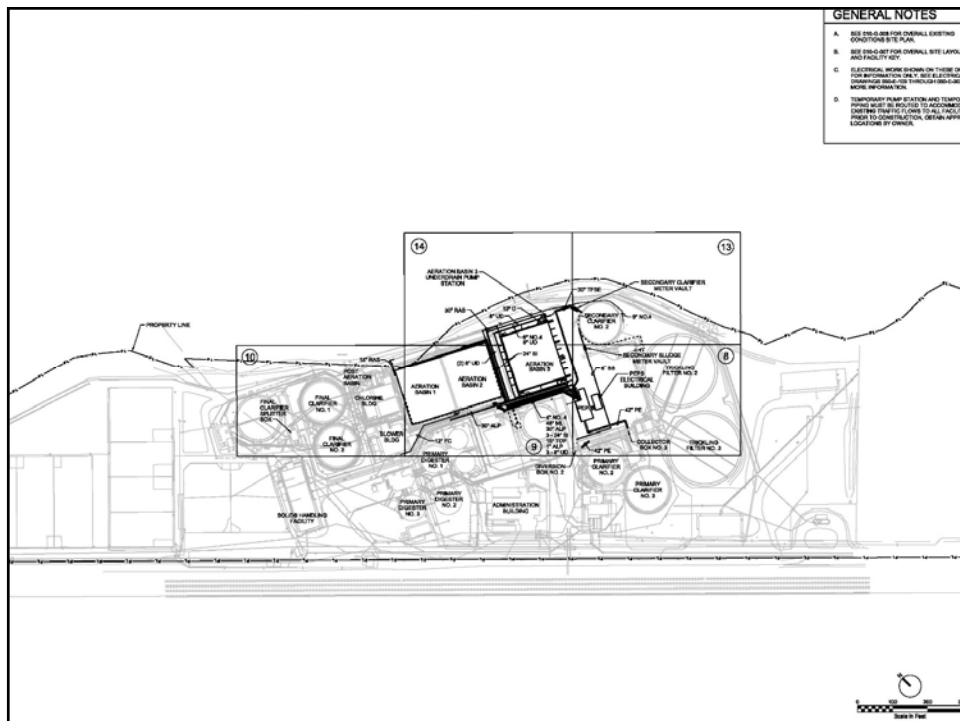
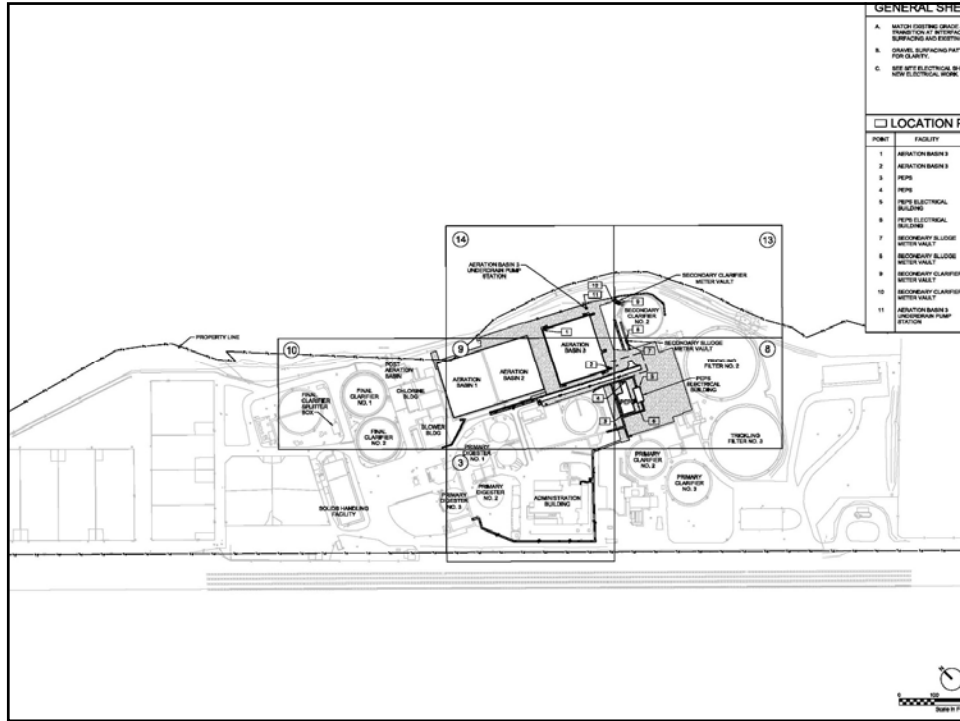


Review Drawings and Specifications- Blower Building



Review Drawings and Specifications Blower Building

- Major Elements
 - Provide a new Programmable Logic Controller and associated panel
 - Provide some new instrumentation



Schedule Constraints

CH2M HILL

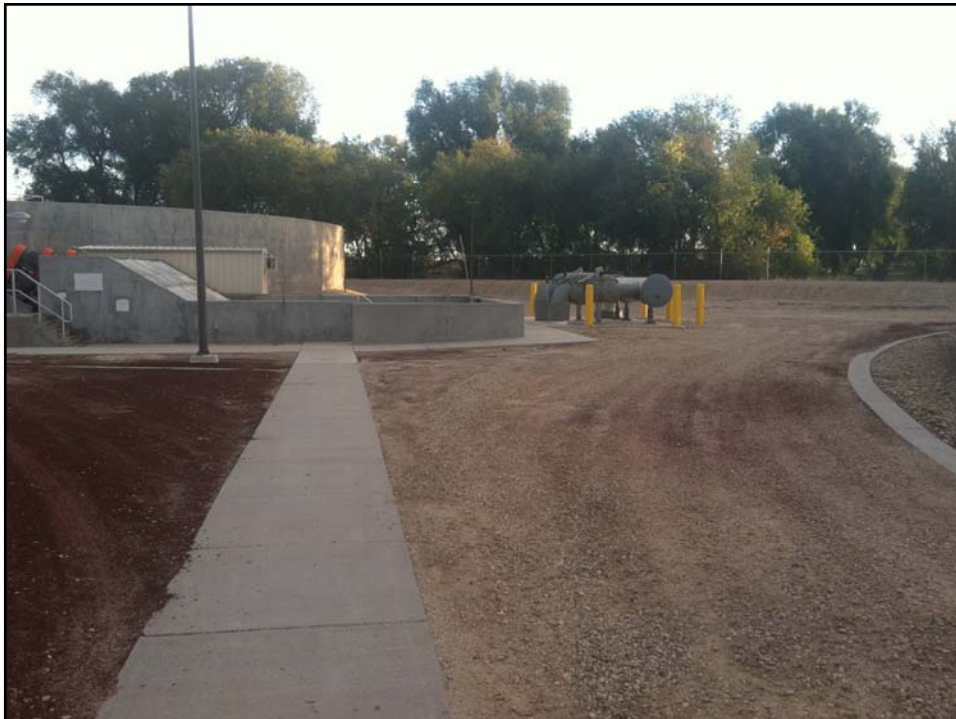
Proposed Sequence

- Demo Trickling Filter 1
- Temporary Pumping – 3 Locations
- Install Secondary Sludge line
- Demo SEPS, SSPS, Secondary Clarifier No. 1 and Flume
- Milestone 1 Construction
 - Build PEPS and PEPS Electrical Building
 - Build Aeration Basin 3
 - Modify Yard Piping
- Upgrade Aeration Basin 1
- Upgrade Aeration Basin 2
- Install Trickling Filter 1 mechanism on Trickling Filter 2

Proposed Sequence

■ Bypass Pumping

- TFEPS to Aeration Basins – VFD
 - Discharge point – Secondary clarifier 2 inlet header
 - Duration – about 10 months
- Primary Clarifier 1 – Constant Speed
 - Discharge to Aeration Basin 1 or 2
 - ON/OFF Constant Speed
 - Digester Underdrain
 - Thickening Overflow (TOF)
 - Storm Drain
 - UV Basin Dewatering
- Aeration Basin 1 and 2 Underdrain Pump Station - Constant
 - Discharge to Aeration Basin 1 and 2
 - Use existing pumps and controls
- Soda Ash Feed – Route to RAS



Constraints

- Limitations on number of processes offline
- Limits on plant shut down
- Limits on duration of process shut downs
- Issues with taking trickling filters off line
- Operating plant – National Pollution Discharge Elimination System

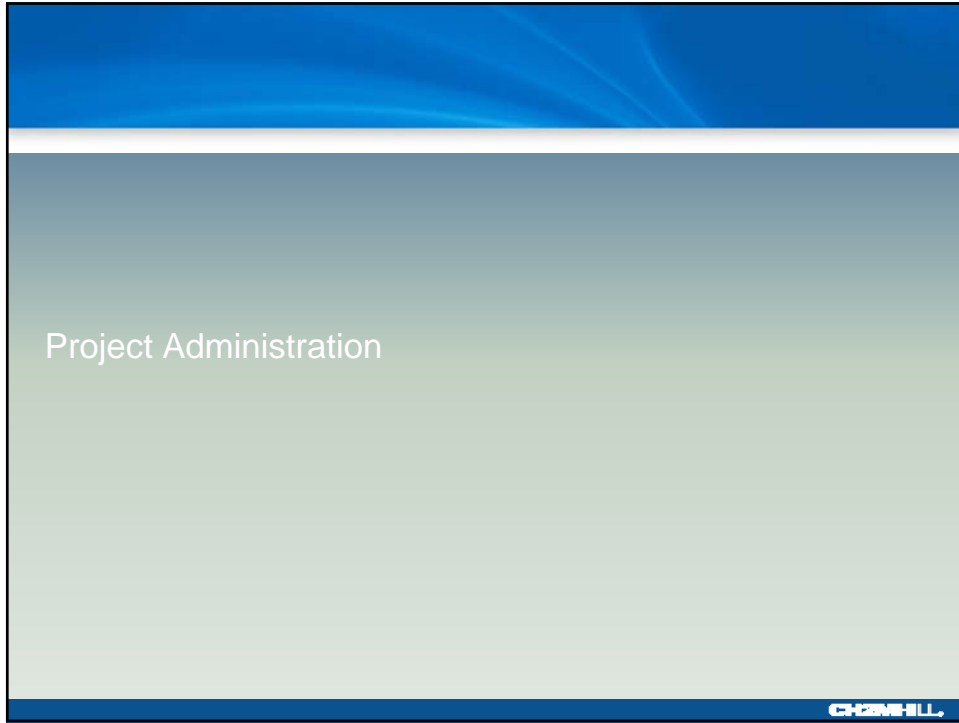
Construction Elements

Construction

- Temporary Facilities(01 51 00)
 - Owner Trailer (purchased and furnished on behalf of the owner)
 - Contractor Trailer
 - Utilities (except telephone)
 - Telephone
 - Laydown
- Dewatering (31 23 19.01)
 - Construction Dewatering (Lump Sum)
 - Confined Aquifer Dewatering (Allowance)
- Temporary Flow Control (01 57 28)

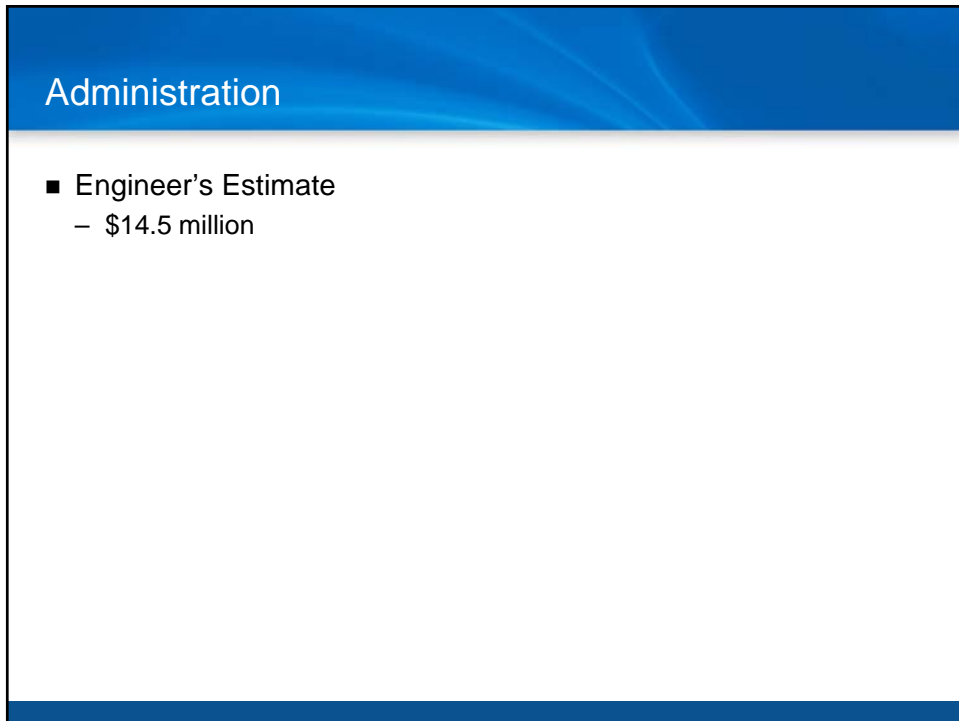
Construction Coordination with Others

- Treatment Plant Operations
- Idaho Power
- Systems Integrator
- Other construction projects
 - Project Group B estimated start July 2017



Project Administration

CH2MHILL



Administration

- Engineer's Estimate
 - \$14.5 million

Project Administration

- Liquidated Damages (00 52 00, Agreement)
 - Substantial Completion
 - Completion of Remaining Work
- Schedule (00 52 00, Agreement)
 - Milestone 1
 - Substantial Completion
 - Completion of Remaining Work
- Allowances (01 29 00)
 - Permit Fees (City of Nampa)
 - Construction Dewatering of Confined Groundwater (PEPS)
 - Hidden Utilities and Existing Conflicts
- Internet Based Project Management Requirements
 - EADOC

Project Administration

- Bidding
 - Addenda
 - Weekly on Fridays
 - Contractor question cutoff March 20th
 - Last addenda on March 25th (more or less)
 - Site Visits
 - Feb 25, 2015 – 9:00 a.m. to noon
 - Mar 4, 2015 – 9:00 a.m. to noon
 - Bid Date
 - 2:00 p.m. – April 2, 2015
 - Bids to City of Nampa Public Works Department
 - Attachments to the bid – Bid Form paragraph 7.

Project Administration

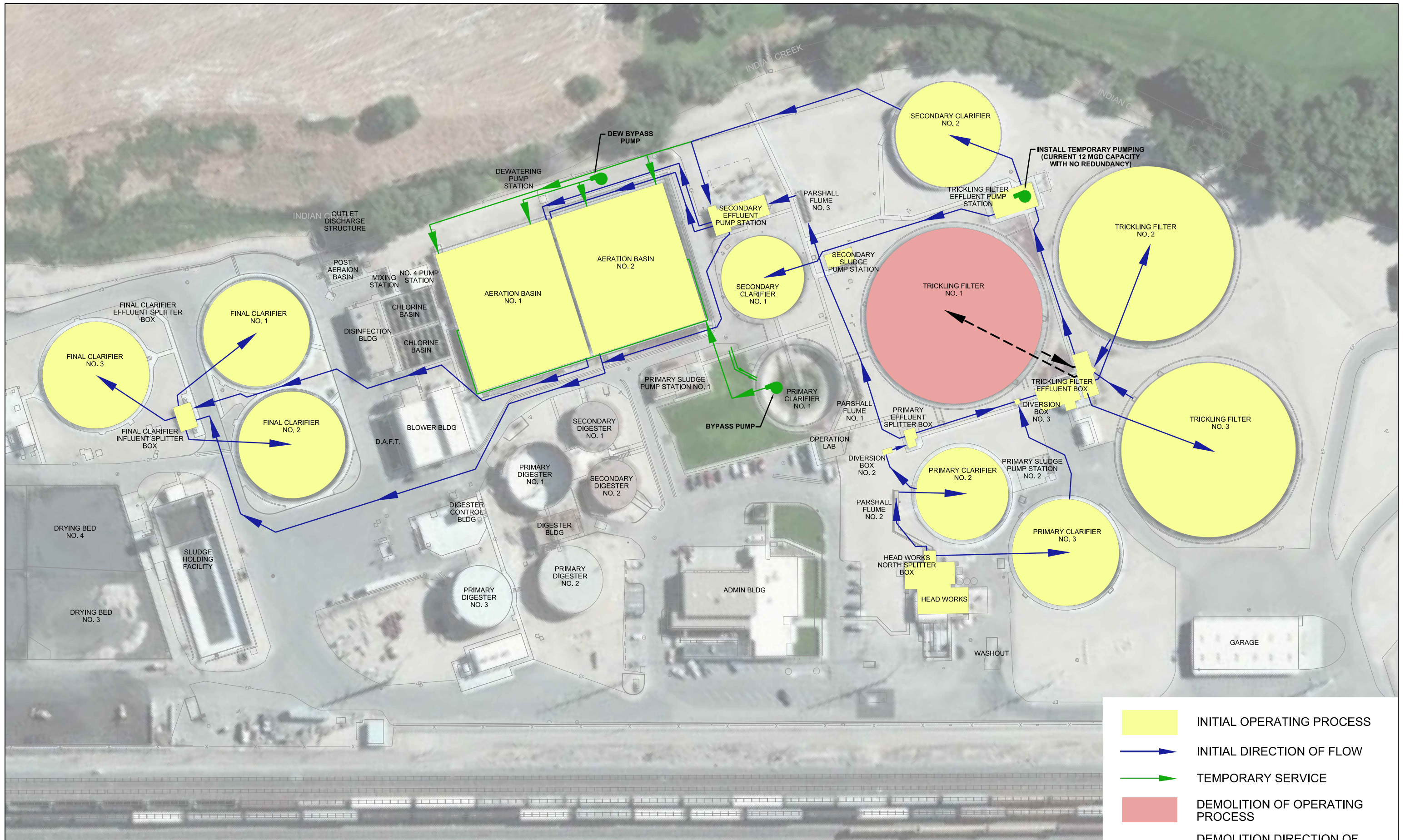
- Bid Security
- Subcontractors Disclosure
- Clean Water State Revolving Funds
 - Subcontractors Disclosure
 - Disadvantaged Business
 - Davis Bacon - Prevailing Wage Requirements

Bidder Questions

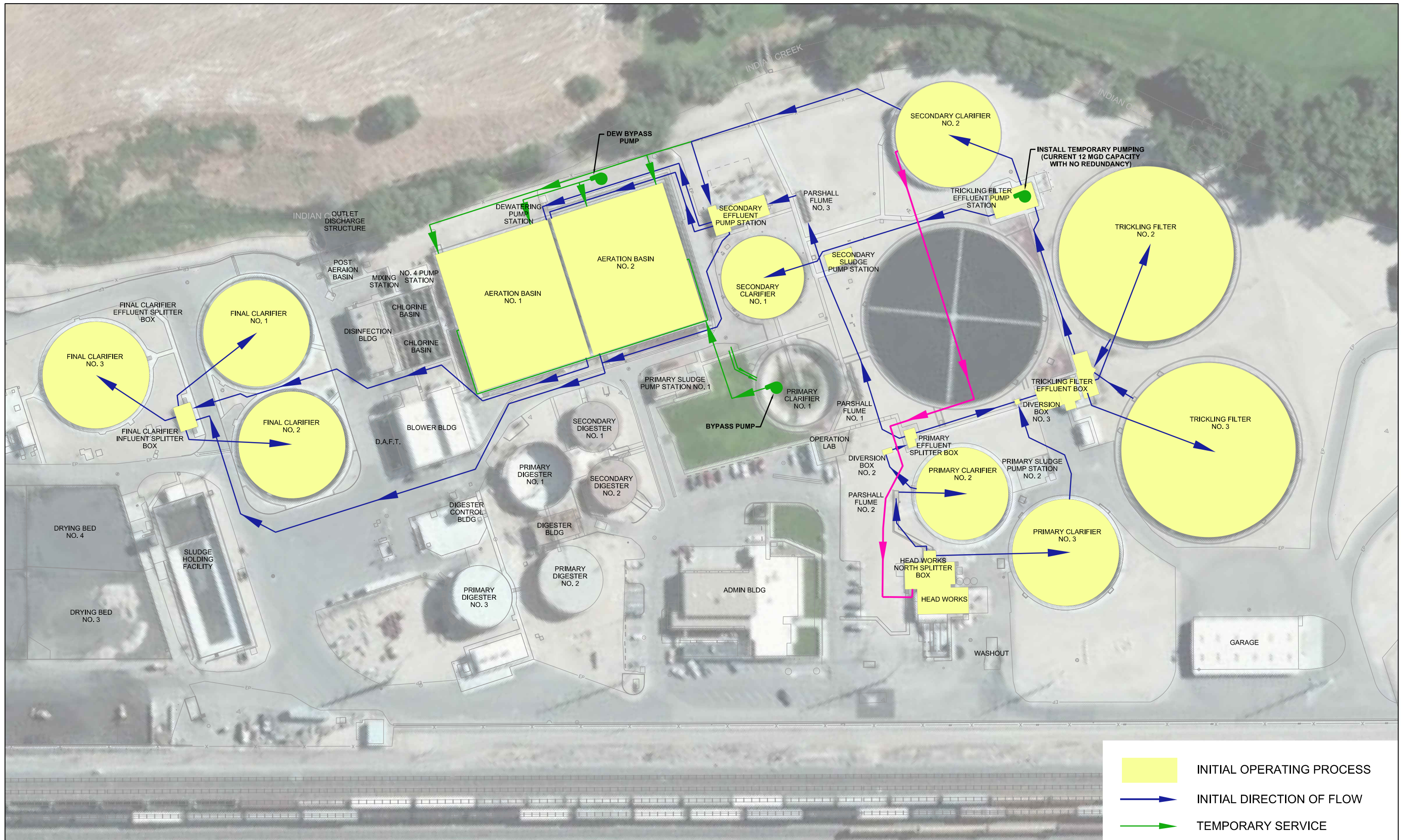




NAMPA WWTP PHASE 1 EXPANSION - GROUP A
INITIAL OPERATIONS

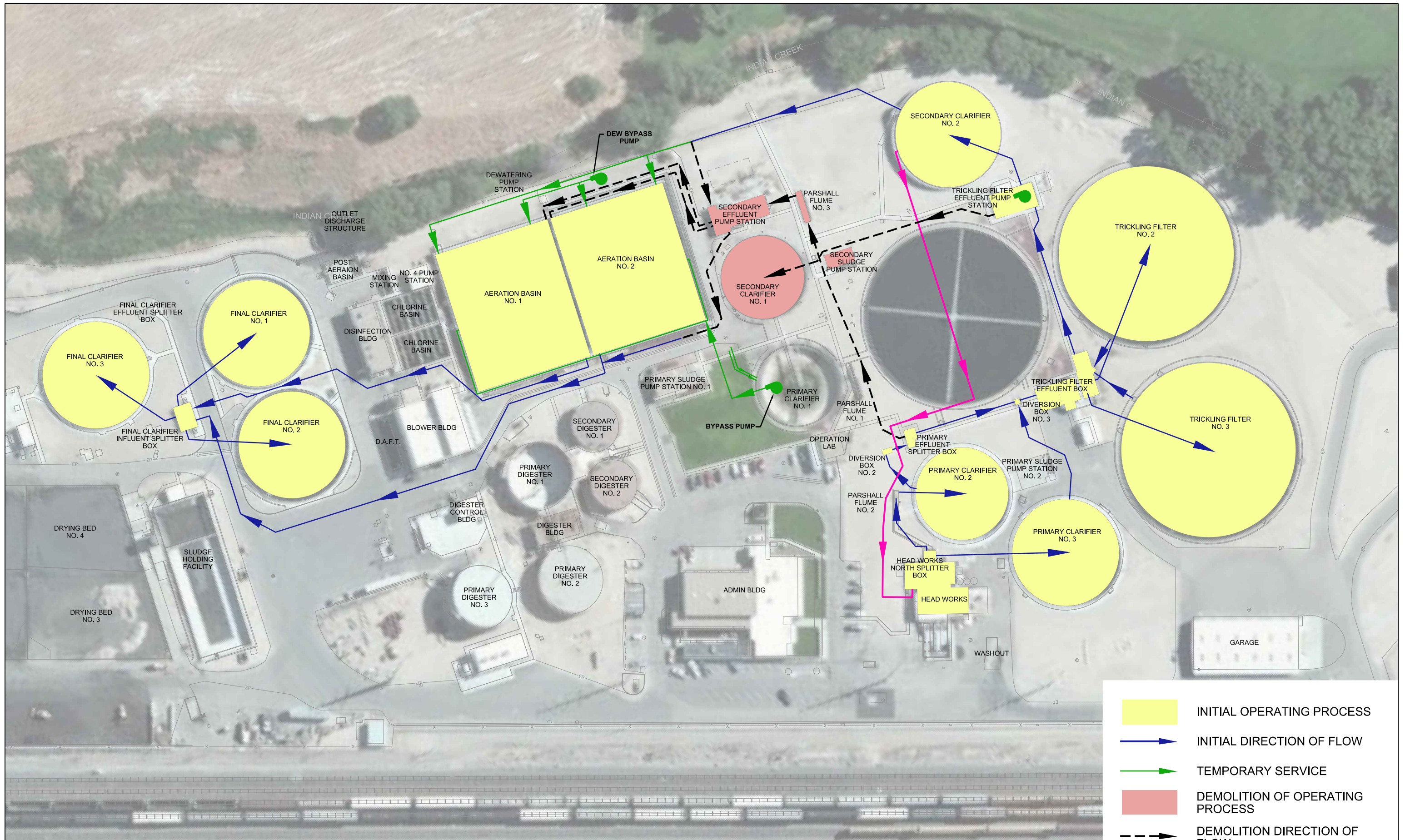


NAMPA WWTP PHASE 1 EXPANSION - GROUP A

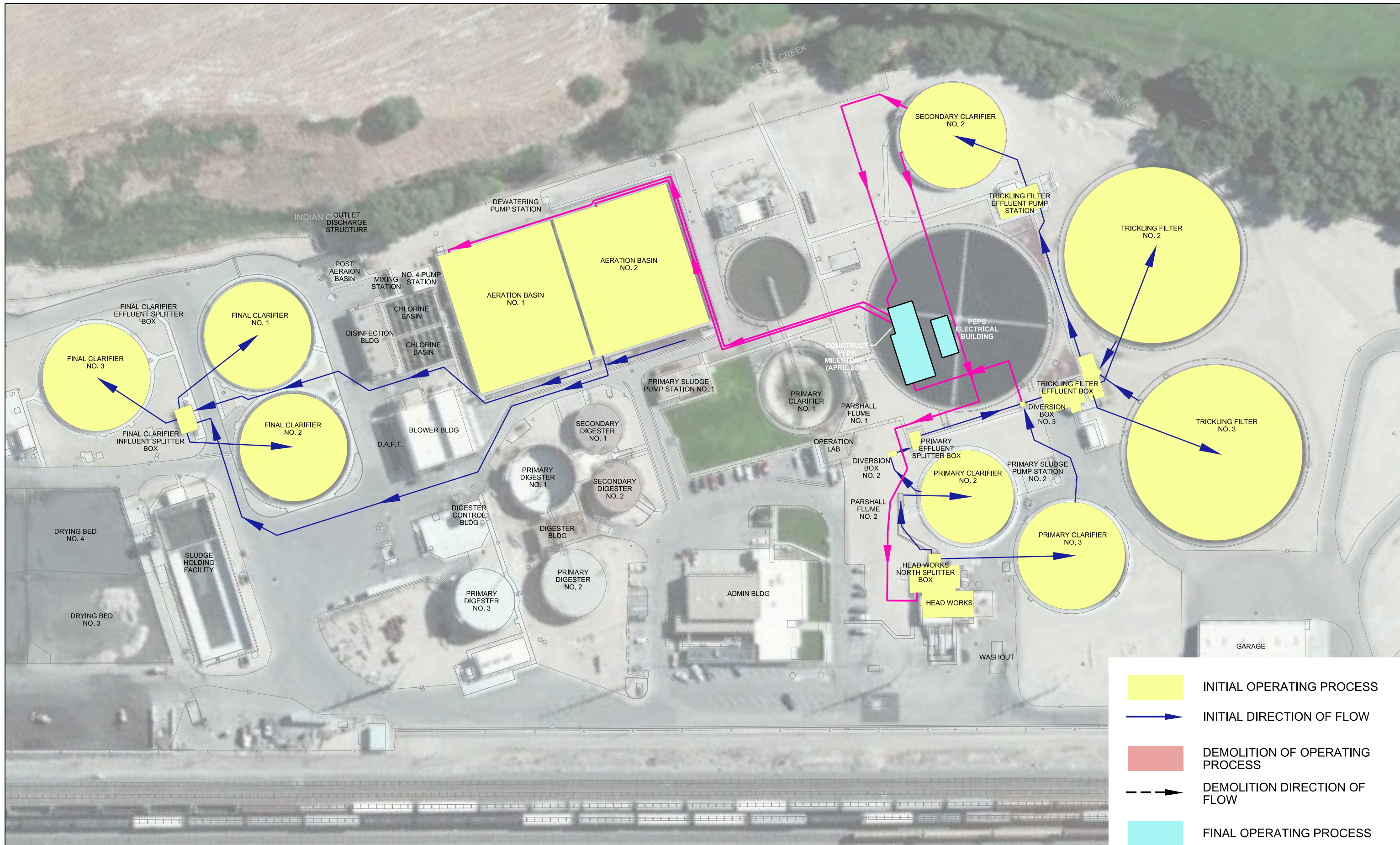


- INITIAL OPERATING PROCESS
- INITIAL DIRECTION OF FLOW
- TEMPORARY SERVICE
- FINAL DIRECTION OF FLOW

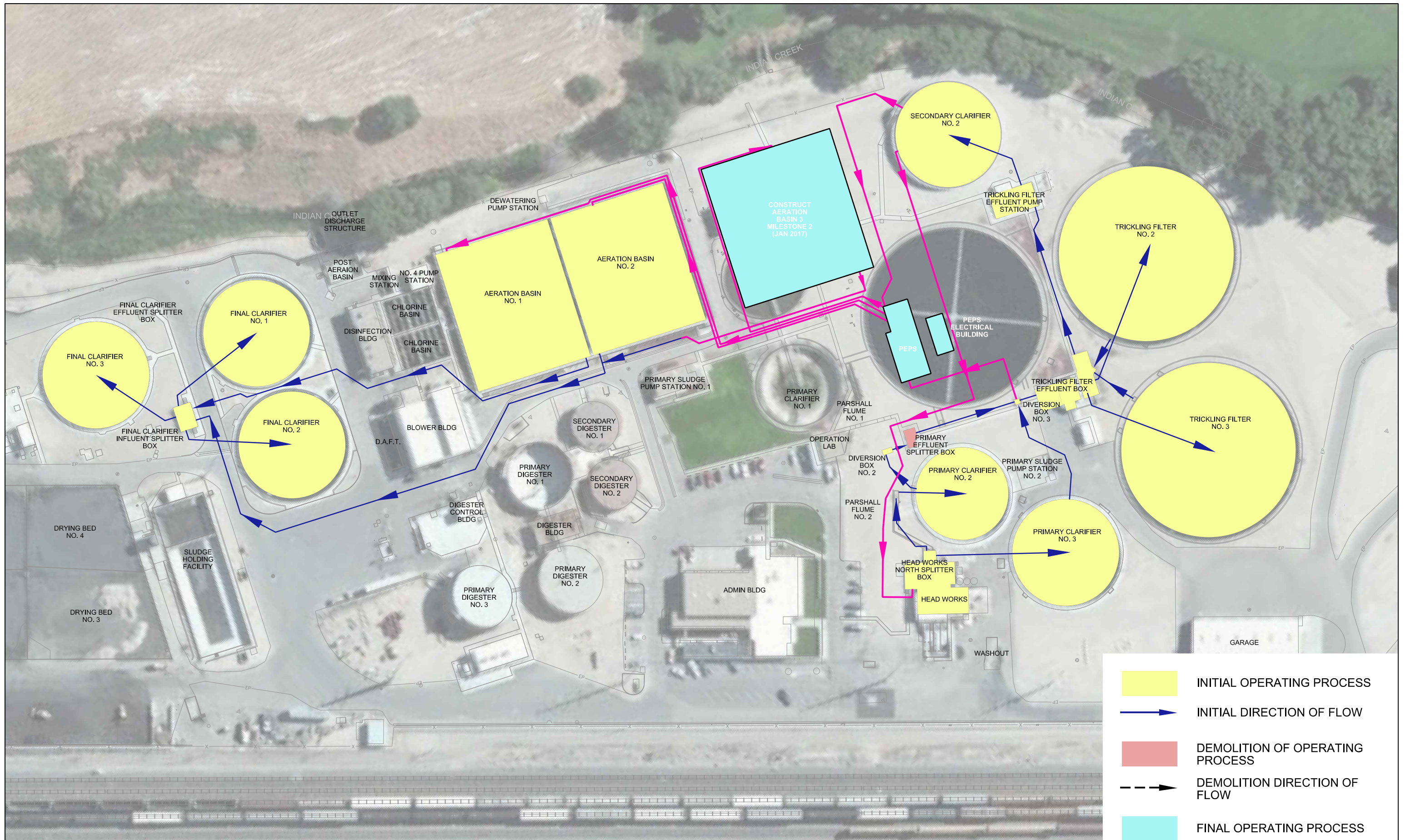
NAMPA WWTP PHASE 1 EXPANSION - GROUP A



NAMPA WWTP PHASE 1 EXPANSION - GROUP A

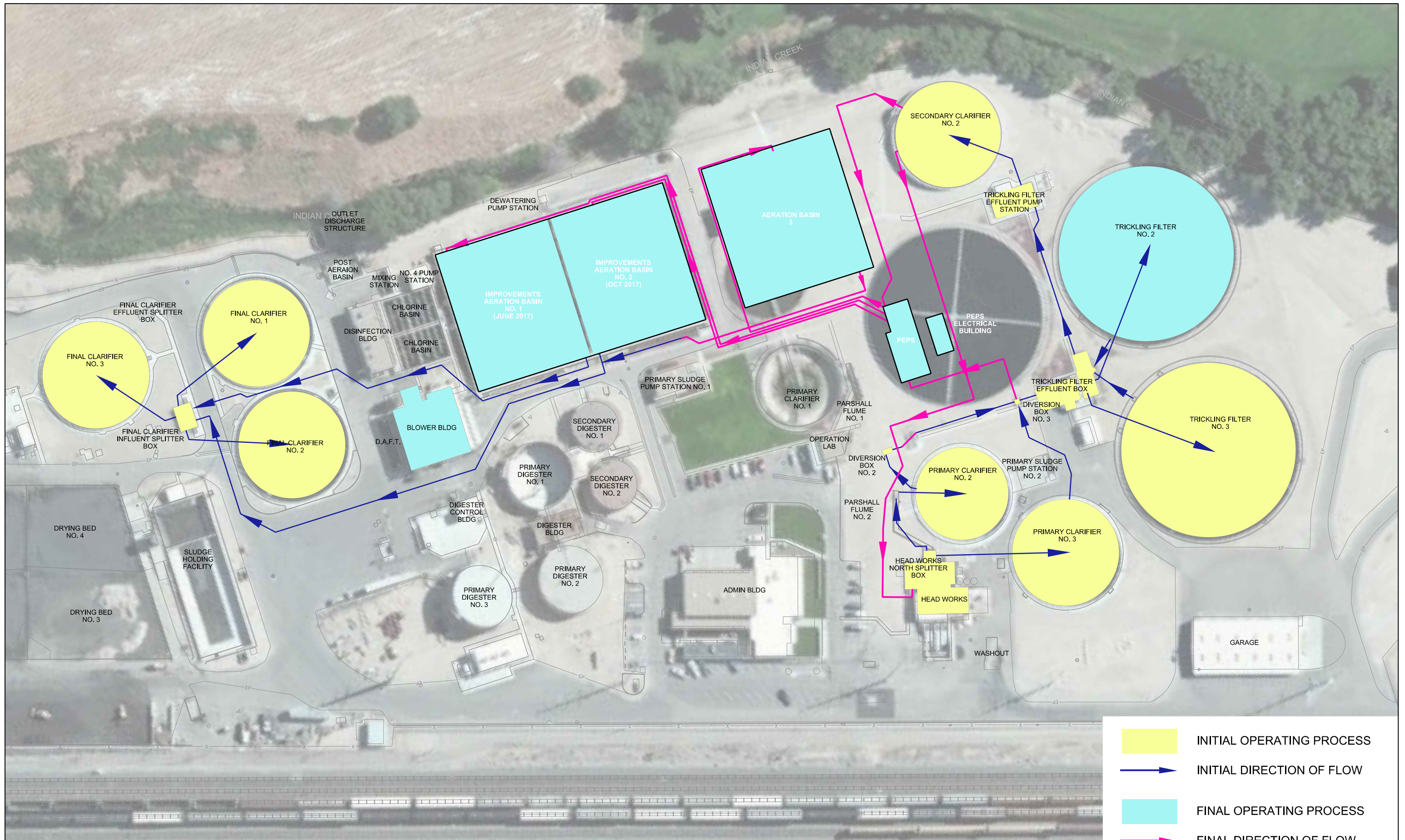


NAMPA WWTP PHASE 1 EXPANSION - GROUP A



- INITIAL OPERATING PROCESS
- INITIAL DIRECTION OF FLOW
- DEMOLITION OF OPERATING PROCESS
- DEMOLITION DIRECTION OF FLOW
- FINAL OPERATING PROCESS
- FINAL DIRECTION OF FLOW

NAMPA WWTP PHASE 1 EXPANSION - GROUP A



- INITIAL OPERATING PROCESS
- INITIAL DIRECTION OF FLOW
- FINAL OPERATING PROCESS
- FINAL DIRECTION OF FLOW

NAMPA WWTP PHASE 1 EXPANSION - GROUP A
FINAL OPERATIONS

City of Nampa Wastewater Treatment Plant Phase 1 Upgrades

Group A - Liquid Stream Upgrades

Preconstruction Conference Sign in Sheet
2/18/2015

Name	Company	Phone Number	Email Address	Plan Holder Y/N	General Contractor or Subcontractor
Jim Cox	JL CONSTRUCTORS	850-1375	Jim@JLBOISE.COM	Y	GC
Trevi's Conzer	PSI	405-8344	teonger@psisc.com	Y	GC
Jared Cook	BCI	582 5679	Jared@bidcyaneta.com	Y	GC
John Lull	Rain For Rent	919-3818	jlull@rainforrent.com		Sub
Tom Morrow	Garco	509-535-4688	bid@garco.com	YES	
TUCK EWING	Ewing Co	377-1500	bid@ewingcompany.com	YES	GC
Benji Young	Ewing Co	377-1500	bid@ewingcompany.com	YES	GC
JEFF BLACK	Acorn Const Co	501-266-8856	jbblack@acornconstruction.com	YES	GC
Elliot Shippy	AME Electric	965-5144	Elliot@AMEElectric.com		SC
ROGER GRAMSKO	CNI	362-9656	roger@centraton.com	Y	GC
CHRIS ALLEN	COP CONST.	322-4060	MTLBOISE@COP.COM	YES	CONTRACTOR
John Katzendörfer	Robertson Supply Pump House	208-860-9043	Johnk@pumphouse.us	Y	Distributor
Tye Thomas	Challenger	461-0608	tye@challenger.companies.com	Y	Sub

Nampa Wastewater Treatment Plant Phase I Upgrades: Group A – Liquids Stream Upgrades

Questions from Pre-bid Conference 2/18/15

1. Will contractor be required to purchase construction trailer, all furnishings, and hook up utilities?

Yes – the Owner's (Engineer's) trailer will also remain permanently on-site for the Owner's use on future program phases. See Section 01 51 00 Field Office and Temporary Facilities

2. Will owner provide utilities to contractor trailer etc.?

Yes – the Owner will provide utility services to the construction trailer with the exception of telephone service which is the responsibility of the Contractor. Contract will be required to make all the respective connections for the utility services. See Section 01 51 00 Field Office and Temporary Facilities

3. Are there specific requirements for excavation, specifications, and shoring?

This question will be clarified in Addendum No. 3.

4. Is trickling filter media Hazardous Waste?

Response to be provided later.

5. Is the contractor required to haul off all excess excavated material?

Yes – all excess spoils are to be removed from the site.

6. Where is the water from dewatering operations required to discharge to?

Water from the dewatering operation will be routed to the headworks of the treatment plant with certain level of treatment required as detailed in the specifications. See Section 31 23 19.01 Dewatering.

7. Will the existing dewatering facilities continue to operate during construction?

Yes – all existing plant dewatering facilities will remain in operation during construction and will be operated and maintained by the Owner. See Section 01 31 30 Construction and Schedule Constraints.

8. Does list of subcontractors have to be submitted with the bid docs, prior to bid opening?

Yes – as required by 40 CFR 33.501 (Idaho State Revolving Fund requirement) all subcontractors shall be listed as part of the bid. See Section 00 41 00 Bid Form.

9. Is the lump sum bid price (5.2) inclusive of the lump sum for cash allowance (5.3.1, &5.3.2), Lump sum contingency allowance (5.3.3) and Instrumentation and Control Components (lowest of 5.4.1, 5.4.2, 5.4.3) or are they to remain separate?

No – the costs are to remain separated. The Contractor is required to total all Lump Sum bid items (see page 5 of Section 00 41 00 Bid Form) numerically and in written words.

10. Is the contractor required to bid all three types of Instrumentation and Control components, and which will be used to determine bid price?

No – the Contractor is only required to submit a bid price on one of the listed Instrumentation and Control Components. See Section 00 41 00 Bid Form.

11. Is the engineer willing to accept “substitutes” or “or equal” prior to bid opening?

No – the Contractor will be required to use the substitute or change request process during construction at which time the Engineer will evaluate proposed alternates. “Or Equal” equipment shall be submitted using the normal shop drawing review process. See General Conditions including Article 7.