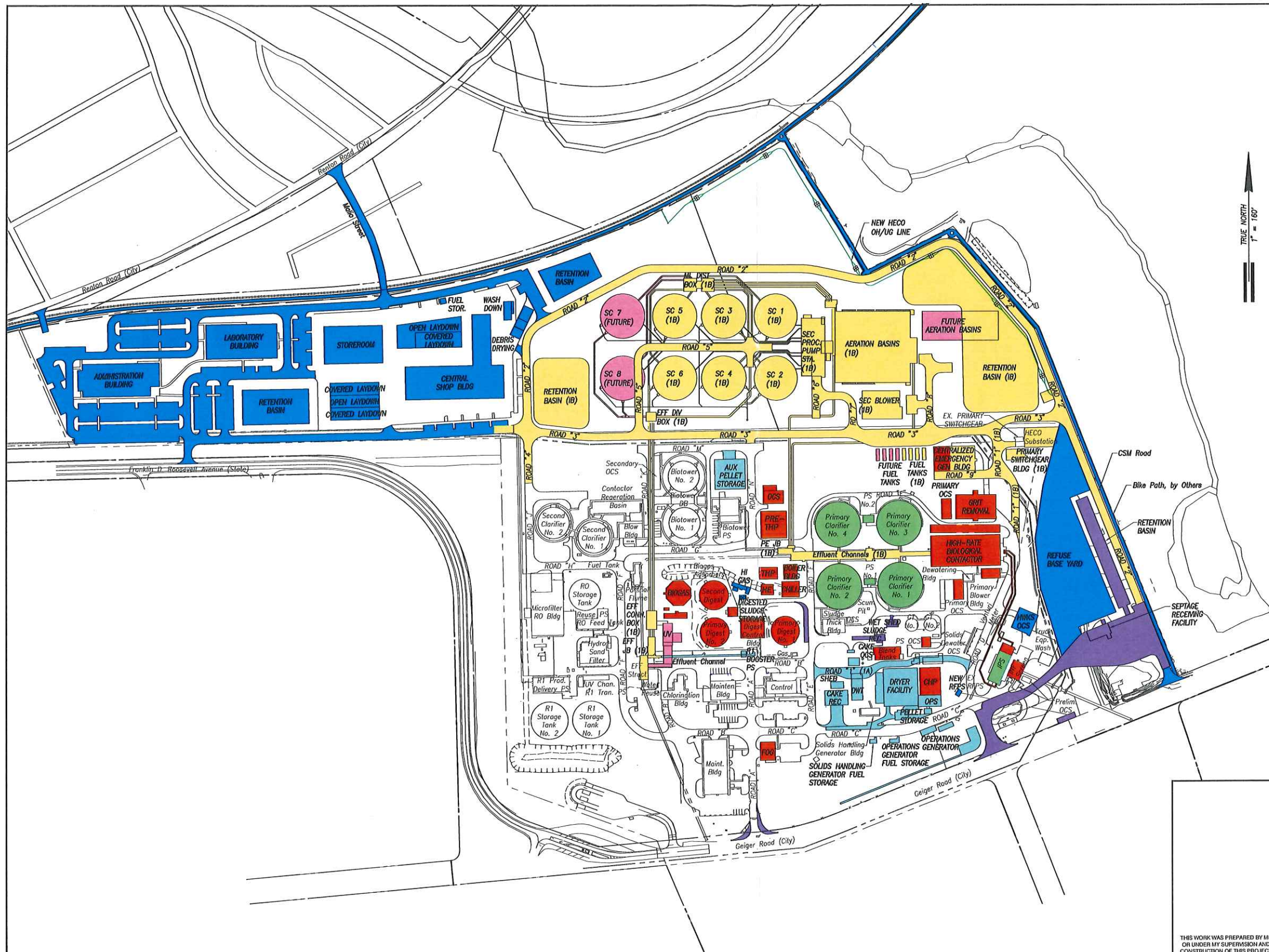


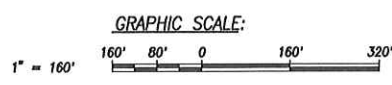
Thu, 15 Aug 2019 - 8:01am
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- UPGRADE PHASE 2**
 1. NEW SEPTAGE RECEIVING FACILITY
 2. NEW WET SLUDGE RECEIVING FACILITY
- PHASE 1A - SECONDARY SOLIDS**
 1. NEW DRYER FACILITY
 2. UPGRADE CENTRIFUGES
 3. NEW CAKE RECEIVING FACILITY
 4. NEW CAKE OCS
 5. NEW SOLIDS HANDLING ELECTRICAL BLDG. (SHEB)
 6. NEW DEWATERING BLDG. (DWT)
 7. NEW PELLET STORAGE
 8. NEW AUX PELLET STORAGE
 9. NEW FUEL STORAGE FOR SOLIDS HANDLING GENERATOR
 10. NEW OPERATIONS GENERATOR
 11. NEW FUEL STORAGE FOR OPERATIONS GENERATOR
 12. NEW OPERATIONS BLDG. (OPS)
 13. NEW R1 BOOSTER PUMP STATION
 14. DEMOLISH EFFLUENT CHANNEL, GT 3 & 4, HEAT EXCHANGERS, CHEMICAL STORAGE, SOLIDS OCS, THERMAL CONDITIONING BLDG., DEWATERING BLDG., AND INCINERATOR BLDG.
- PHASE 1B - SECONDARY INCREMENT 1 COMPLIANCE**
 1. NEW AERATION BASINS
 2. NEW SECONDARY CLARIFIERS (SC)
 3. NEW SECONDARY BLOWER/ELECTRICAL BLDG.
 4. NEW ML DISTRIBUTION BOX
 5. PRIMARY EFFLUENT CHANNEL / JUNCTION BOX MODIFICATIONS
 6. NEW EFFLUENT DIVISION BOX (EFF DIV BOX)
 7. NEW SECONDARY DUAL EFFLUENT LINES
 8. NEW EFFLUENT CONNECTION BOX (EFF CONN. BOX)
 9. EFFLUENT JUNCTION BOX MODIFICATIONS (EFF JB)
 10. HECO SUBSTATION UPGRADES
 11. NEW CENTRALIZED GENERATOR BLDG. AND FUEL STORAGE
 12. NEW PRIMARY SWITCHGEAR BLDG.
- PHASE 1C - SECONDARY INCREMENT 2**
 1. EXPANSION AND UPGRADE OF INFLUENT SCREENING CHANNELS
 2. REHABILITATION OF EX. PRE-AERATION TANKS AND AERATED GRIT CHAMBERS
 3. CONVERT PRE-AERATION BASINS TO NEW HIGH RATE BIOLOGICAL CONTACT FACILITY
 4. NEW 5TH HIGH RATE BIOLOGICAL CONTACT TANK
 5. INSTALL NEW GENERATORS INSIDE CENTRALIZED EMERGENCY GENERATOR BUILDING
 6. NEW GRIT REMOVAL FACILITY
 7. NEW PRIMARY OCS
 8. UPGRADE PRIMARY BLOWER BLDG.
 9. UPGRADE BLEND TANKS
 10. NEW SOLIDS OCS
 11. UPGRADE DIGESTERS
 12. NEW THERMAL HYDROLYSIS FACILITY
 13. NEW HEAT EXCHANGERS, CHILLERS, BOILER BUILDING, DIGESTED SLUDGE STORAGE, GENERATOR AND OCS
 14. NEW BIOGAS STORAGE AND HANDLING
 15. NEW COMBINED HEAT AND POWER FACILITY
 16. NEW FOG FACILITY
 17. MODIFY EXISTING FLARE
 18. NEW R3 WATER PUMP STATION
 19. DECOMMISSION BIOWATER PUMP STATION, BIOWATERS, CONTACT TANK, SECONDARY OCS, GRAVITY BELT THICKENERS AND OCS
- PHASE 1D - EXPANSION PACKAGE**
 1. INFLUENT PUMPING STATION UPGRADES
 2. NEW SITEWIDE MANAGEMENT
 3. CONVERT PRIMARY CLARIFIERS TO EQUALIZATION TANKS
- LEGEND**
- PHASE 1A (OCT 2018 - OCT 2021)
 - PHASE 1B (DEC 2018 - DEC 2022)
 - PHASE 1C (NOV 2022 - NOV 2026)
 - PHASE 1D (JUL 2023 - JUL 2026)
 - UPGRADE PHASE 2 (FEB 2019 - JUL 2020)
 - BY OTHERS
 - PHASE 2 (IF NEEDED)



PHASING PLAN
 SCALE: 1" = 160'



REVISION	DATE	BRIEF	BY	APPROVED
WASTEWATER DIVISION DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU				
PROJECT: HONOLULU WWTW SECONDARY TREATMENT				
ITEM: PHASING PLAN				
DESIGNED BY: _____		CHECKED BY: _____		
DRAWN BY: _____		SECTION HEAD: _____		
APPROVED: _____		BRANCH HEAD: _____		
SIGNATURE		DATE		
4/30/18		JOB NO. W#-##		
FILE CABINET	DRAWER	FILE	POCKET	FOLDER