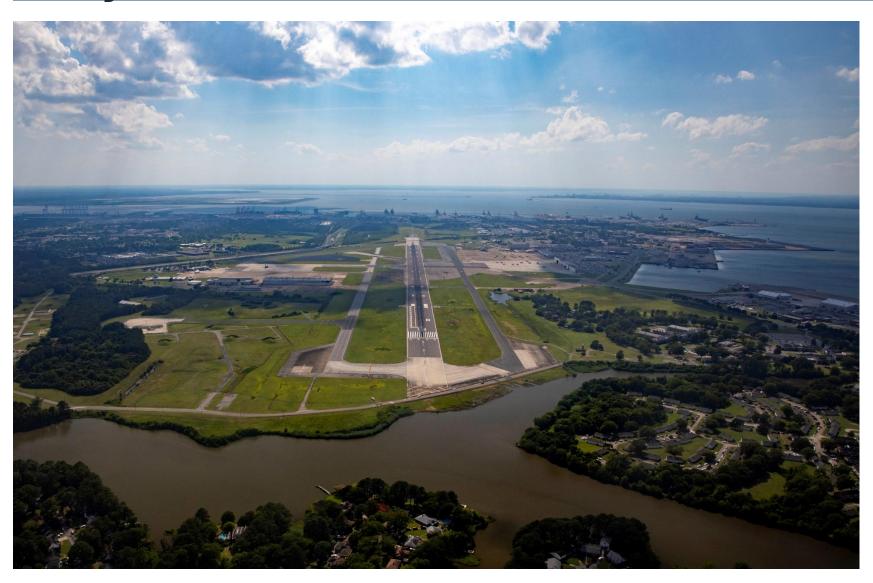


Chambers Field Runway

Naval Station Norfolk, VA

Project Information:



- Total Contract: \$20.2M
 - Original Contract Value: \$16.9M
 - Change Orders: \$3.3M
- Contract Duration: 120 days
- Liquidated Damages: \$12,500/Day
- Runway Dimensions:
 - o 6500 ft. Long
 - o 200 ft. Wide
- Asphalt Quantities:
 - o 30,000 Tons P401
 - o 3,150 Tons P403
 - o 6,300 Tons 9.5A



Scope of Work: Runway















Scope of Work: Instrument Landing System







Quantities:



Runway Closure: March 1st to June 30th, 2021





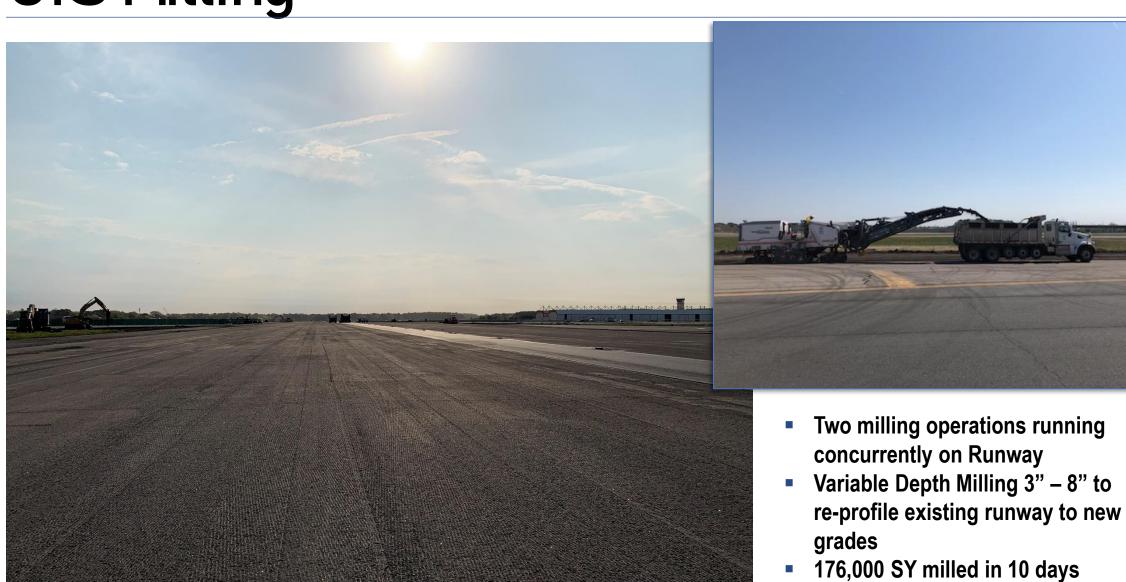
US Navy Admiral Visit



- High profile project that was deemed "Mission Essential" for US Navy operations
- Project required all aircraft to be temporarily deployed to three different Navy Bases for the duration of the work
- Navy Admirals inspected site regularly to monitor progress and quality
- US Navy commended the job upon completion



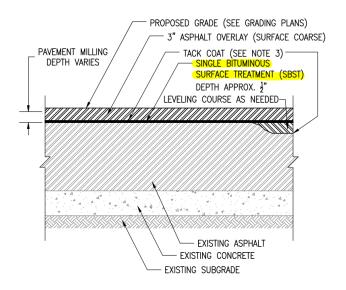
UTS Milling



Surface Treatment



- ½" SBST Bituminous Surface Treatment installed over asphalt base to repair existing surface condition
- Installation performed by Whitehurst

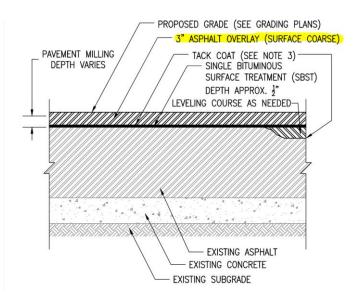




UTS Paving



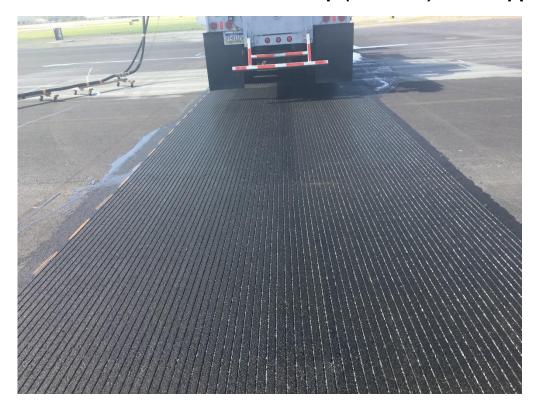
- 39,000 Tons paved in 15 Days
- UTS Machine Control to control variable depths (3" – 6")
- Tandem Paving operation reduced longitudinal joints which were required to be saw cut
- Paving sequence eliminated transverse joints





Asphalt Grooving

- Two 8 ft. Cardinal Safe-T-Groover Machines worked 24/7 to complete 144,400 SY in 7 days
- Asphalt cured 30 days prior to Grooving
- Grooves ¼" Wide and ¼" Deep (+/- 1/16") and skipped over the CL Lights







Airfield Striping

- Hi-Lite performed Airfield Striping with Sightline, Inc. Present to perform specialized QC Services
- Ground surface was water blasted prior to application with Pull Test and Surface Moisture Tests conducted daily to verify cleanliness
- Material Coverage and Reflectivity exceeded FAA specifications
- 128,000 SF of markings completed using 19,000 lb of beads and 1,235 Gal of Paint





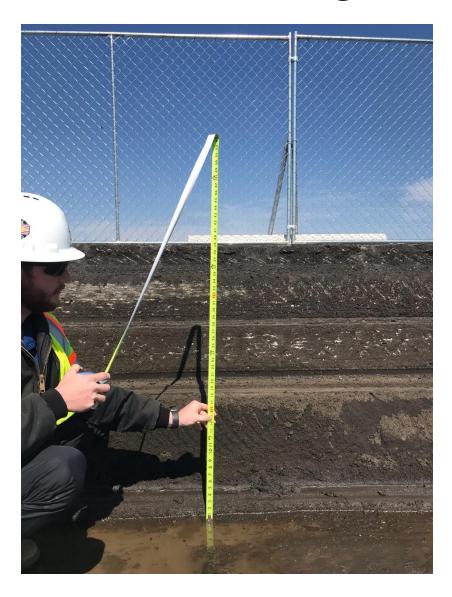


Airfield Striping Layout





Demo Milling



- 94,0000 SY variable depth asphalt milling ranging 6" 48" + 6" concrete to return impervious pavement to green areas for site drainage
- FOD Control critical in these areas due to adjacent Helo-Pads
- Several unmarked, private utilities present in the area that had to be worked around that supported Navy Precision Approach Radars (PAR)





Active Helicopter Pads (Video)

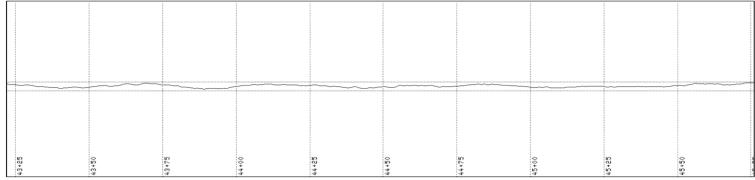




Quality Control



- 18 lots tested, all 100% Pay Factor based on Laboratory Air Voids & In-Place Density
- Mat cores 94-96% TMD, Joint Cores >92.5% TMD
- Profilograph completed with AMES 6300 Lightweight Profile
 Method exceeded required smoothness.
 - O Average of 0.75 in/mi over runway, no entry greater than 1.8 in/mi
 - Specification standard allowed up to 7 in/mi





Challenges:



- Fast Paced Schedule
- Security Requirements
- Trucking Availability
- QC Tolerances
- Unmarked Utilities
- Owner Changed Conditions



Challenges: Runway Light Elevations



- Existing Light Cans Exceeded FAA tolerance of +/-1/16"
- Runway Grades Re-designed After Milling Complete
- Add 5,000 Tons P401 Asphalt
- UTS Paving
- Change Order: +6 Calendar Days



Opening Day: July 19th, 2021



