

# SPACE LAUNCH DELTA 45

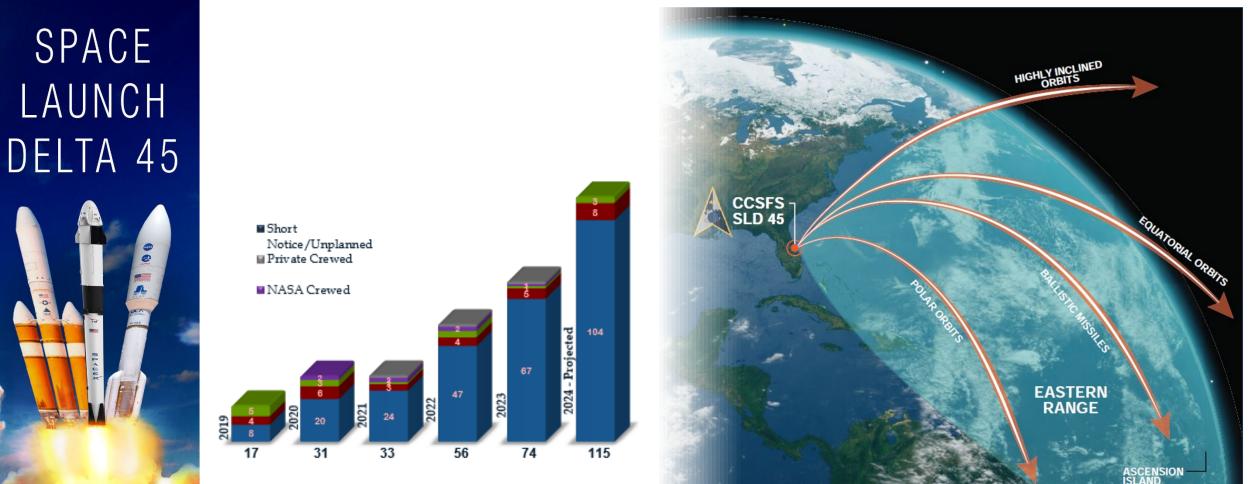


Andy Duce Program Manager Spaceport Development



## Why is this Important?







SPACE LAUNCH DELTA 45



# **Project Scope & Deliverables**



- The U.S. Space Force's Range of the Future 2028 Strategic Intent identified the requirement to increase launch posture over the next 10 years. Infrastructure must be improved to meet this new requirement.
- Primary Goals:
  - Range must be able to support launching EVERY day.
  - Range must be able to support multiple launches per day.
  - Range must eliminate all critical day restrictions.
  - Establish infrastructure redundancy and resiliency.
  - Reduce personnel impacts associated with launch and landing activities.
  - Quick execution projects by completing environmental planning upfront.

#### Study Deliverables:

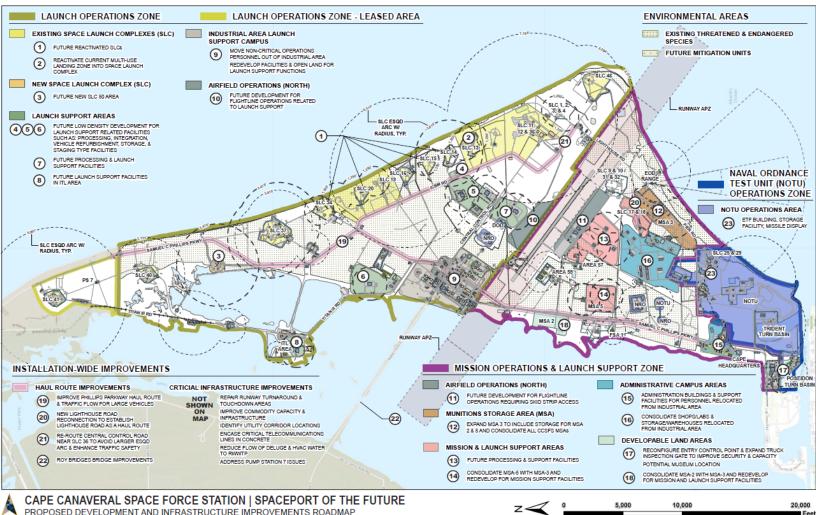
- District Plans: Cape Canaveral Space Force Station & Patrick Space Force Base
- Infrastructure Roadmap (IR)
- Environmental Assessments (EA): Cape Canaveral Space Force Station & Patrick Space Force Base



## **CCSFS** District Plan









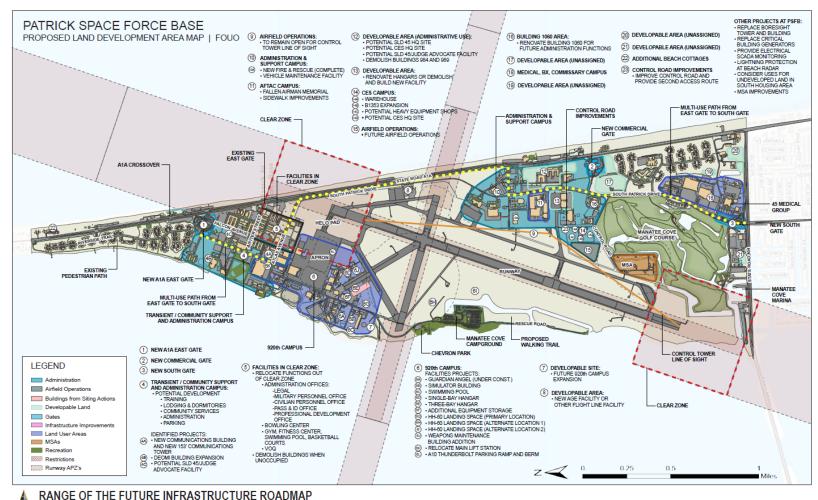


### **PSFB** District Plan

CAPE CANAVERAL SPACE FORCE STATION | PATRICK SPACE FORCE BASE

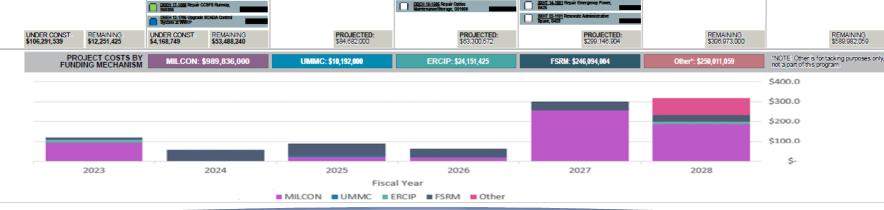






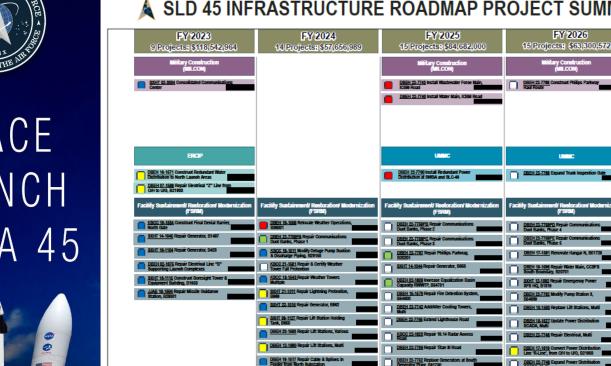


### SET THE PACE FOR SPACE



DBEH 14-1548

# SPACE LAUNCH DELTA 45



<u>H 15-1639</u> Repair Water Lines, M



FY 2029 - 2032

4 Projects: \$589,982,059

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XHT 22-1105 Construct SLD 48

DBEH 22-7778 Construct Proce SEH 22-7781 Construct Secure

IR Project Key

- Ready to Solicit

- Under Construction

In Solicitation

Complete

- In Design

Project Development

FY 2027

18 Projects: \$299,146,904

ERCIP

Facility Sustainment/ Restoration/ Modernization

DBEH 22-7760 Install Redun

DBEH 22-7768PF Rep Duot Banks, Phase 8

FY 2028

12 Projects; \$306,973,000

ERCIP

Military Constru ANII CON

DEEH 22-7778 Con

DBEH 22-777 Support Com

DBEH 22-7784 SXHT 22-1103 Relocate Lift Station,

Facility Sustai

DEEH 22-7763 F Switches, Multi

Support KSC Repair/Upgrade to Ro Bridge

XXHT 22-1102 Renovate 820th

ICBM Road

#### SLD 45 INFRASTRUCTURE ROADMAP PROJECT SUMMARY



# **FSRM Design and Construction**



Act #% Complete22-77680%19-150856%22-774032%22-774332%22-776035%22-776340%17-15681%	Project NameCharrette - Construct Philips Parkway Haul RouteDesign - Relocate Weather Station to SLC - 17Design - Install Water Main, ICBM RdDesign - Install Wastewater Main, ICBM RdDesign - Install Redundant Power Distro, CCSFS (USACE)Design - Install Emergency Generator at MOC (USACE)	Amount
19-1508 56%   22-7740 32%   22-7743 32%   22-7760 35%   22-7763 40%	Design – Relocate Weather Station to SLC - 17     Design - Install Water Main, ICBM Rd     Design - Install Wastewater Main, ICBM Rd     Design - Install Redundant Power Distro, CCSFS (USACE)	
22-7740 32%   22-7743 32%   22-7760 35%   22-7763 40%	Design - Install Water Main, ICBM Rd Design - Install Wastewater Main, ICBM Rd Design - Install Redundant Power Distro, CCSFS (USACE)	
22-7743 32%   22-7760 35%   22-7763 40%	Design - Install Wastewater Main, ICBM Rd Design - Install Redundant Power Distro, CCSFS (USACE)	
22-7760 35%   22-7763 40%	Design - Install Redundant Power Distro, CCSFS (USACE)	
22-7763 40%		
	Design - Install Emergency Generator at MOC (USACE)	
17-1568 1%		
	Rpr CCSFS Runway, B50305	\$50,000,000
19-1511 6%	Modify Deluge Pump Suction and Discharge, Pump Station 7	\$500,000
22-1015 10%	Repair Generator, B962	\$375,000
8-1504 1%	Repair Missile Guidance Station, B28001	\$4,000,000
19-1534 70%	Construct Final Denial Barrier, North Gate	\$600,000
14-1045 1%	Repair Generator, B1497	\$375,000
16-1104 1%	Repair Generator, B423	\$300,000
02-1675 11%	Repair 'B-Line' Supporting Launch Complexes	\$4,250,000
19-1534 70%	Construct Final Denial Barrier, North Gate	\$600,000
19-1517 81%	Repair Cable & Splices in Feeder from North Substation	\$1,500,000
16-1115 95%	Construct Boresight Tower & Equipment Building, B1653	\$1,100,000
12-1765 100%	Upgrade SCADA Controls at RWWTP	\$500,000
20-1563 100%	Repair Lift Stations, Various	\$1,300,000
18-1543 100%	Repair Weather Towers, Multi	\$500,000
22 .8- 19 14 16 02 19 19 19 19 19 12 20	2-1015   10%     -1504   1%    1534   70%    1045   1%    1045   1%     2-1075   11%     2-1675   11%    1534   70%     2-1675   11%    1534   70%     2-1675   10%     2-1675   100%     2-1765   100%	P-101510%Repair Generator, B96215041%Repair Missile Guidance Station, B280011-153470%Construct Final Denial Barrier, North Gate1-10451%Repair Generator, B14971-1041%Repair Generator, B4232-167511%Repair 'B-Line' Supporting Launch Complexes1-153470%Construct Final Denial Barrier, North Gate2-167511%Repair 'B-Line' Supporting Launch Complexes1-153470%Construct Final Denial Barrier, North Gate2-167511%Repair Cable & Splices in Feeder from North Substation2-151781%Repair Cable & Splices in Feeder from North Substation2-1765100%Upgrade SCADA Controls at RWWTP2-1663100%Repair Lift Stations, Various



# ERCIP, MILCON and UMMC (FY23-27)



### SPACE LAUNCH DELTA 45



Project #	Construction FY	Project Name	Status
SXHT 02-3004	2023	Consolidated Communication Center, Patrick SFB	Construction Advertise
DBEH 07-1588	2023	Repair Electrical Z Line, OH to UG	Ready to Advertise
DBEH 22-7740	2025	(Design) Install Water Main, ICBM Rd	35% Design Submittal – 7 Mar 24
DBEH 22-7743	2025	(Design) Install Wastewater Force Main, ICBM Rd	35% Design Submittal – 7 Mar 24
DBEH 22-7760	2025	(Design) Install Redundant Power Distro at CCSFS	35% Design Submittal – 25 Feb 24
DBEH 22-7763	2025	(Design) Install Emergency Generator at MOC	100% Design Submittal – 8 Jun 24
DBEH 22-7768	2026	(Charrette) Construct Phillips Prkwy (South) Haul Route	Charrette – 15-18 Apr 24
DBEH 03-3000	2027	Construct Consolidated Launch Support Facility, Phase I	Charrette – June 24
DBEH 03-3001	2027	Construct Consolidated Launch Support Facility, Phase II	Charrette – June 24
DBEH 22-7755	2027	Construct Consolidated Shop/Laboratory, PH1	Charrette – June 24
DBEH 22-7756	2027	Construct Consolidated Storage/Warehouse Facility, PH1	Charrette – June 24
DBEH 22-7786	2027	Construct Consolidated Storage/Warehouse Facility, PH2	Charrette – June 24
DBEH 22-7784	2027	Construct Consolidated Shop/Laboratory, PH2	Charrette – June 24



# Coming Soon to a Range Near You



### SPACE LAUNCH DELTA 45



Project #	Stage	Project Name
DBEH 22-7767	Preparing Design Solicitation	(Charrette) Repair Phillips Pkwy, B20201
DBEH 10-1565	Design Solicitation Underway	Repair Optics Maintenance / Storage, B01606 (Hangar G)
DBEH 22-7759	Design Solicitation Underway	(Design) CCSFS Comm Duct Bank Survey and Design
KSCC 15-1587	Preparing Construction Solicitation	Repair & Certify Weather Tower Fall Protection
SXHT 08-1127	Preparing Construction Solicitation	Repair Lift Station 650 Holding Tank
DBEH 12-1690	Preparing Construction Solicitation	Replace Lift Stations, Multiple Across CCSFS
SXHT 02-3004	Construction Solicitation Underway	Consolidated Comm Center
SXHT 21-1011	Construction Solicitation Underway	Repair Lightning Protection, B969
DBEH 15-1539	Construction Solicitation Underway	Repair Water Lines, MACA Area
SXHT 00-1028	Construction Solicitation Underway	Convert Space for Airfield Lighting Vault



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DELTA 45

# ERCIP, MILCON and UMMC (FY26+)



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<b>Construction FY</b>	Project Name
2026	Expand Truck Inspection Area (UMMC)
2027	Construct Consolidated Storage/Warehouse Facility, PH3
2027	Install Redundant Power Distro, Trident Wharf (ERCIP)
2028	Install Redundant Power Distro, ICBM Rd (ERCIP)
2028	Consolidate Munitions Storage
2028	Construct Water Storage Tanks
2028	Construct Consolidated Base Support Complex
2028	Relocate Lift Station, B650 (PSFB)
2028	Construct Consolidated Storage/Warehouse Facility, PH4
2028	Construct Water Main to ITL Area
2028	Covert Power Distribution Line R-Line, OH to UG (ERCIP)
2028	Widen ICBM Rd
2029+	Construct Consolidated Shop/Laboratory, PH3
2029+	Construct Consolidated Launch Support Facility, Phase III
2029+	Construct Consolidated Launch Support Facility, Phase IV
2029+	Construct Wastewater Treatment Facility
2029+	Construct Redundant Operations Center
2029+	Consolidated HQ Facility (PSFB)

# SPACEPORTS DF FUTURE