



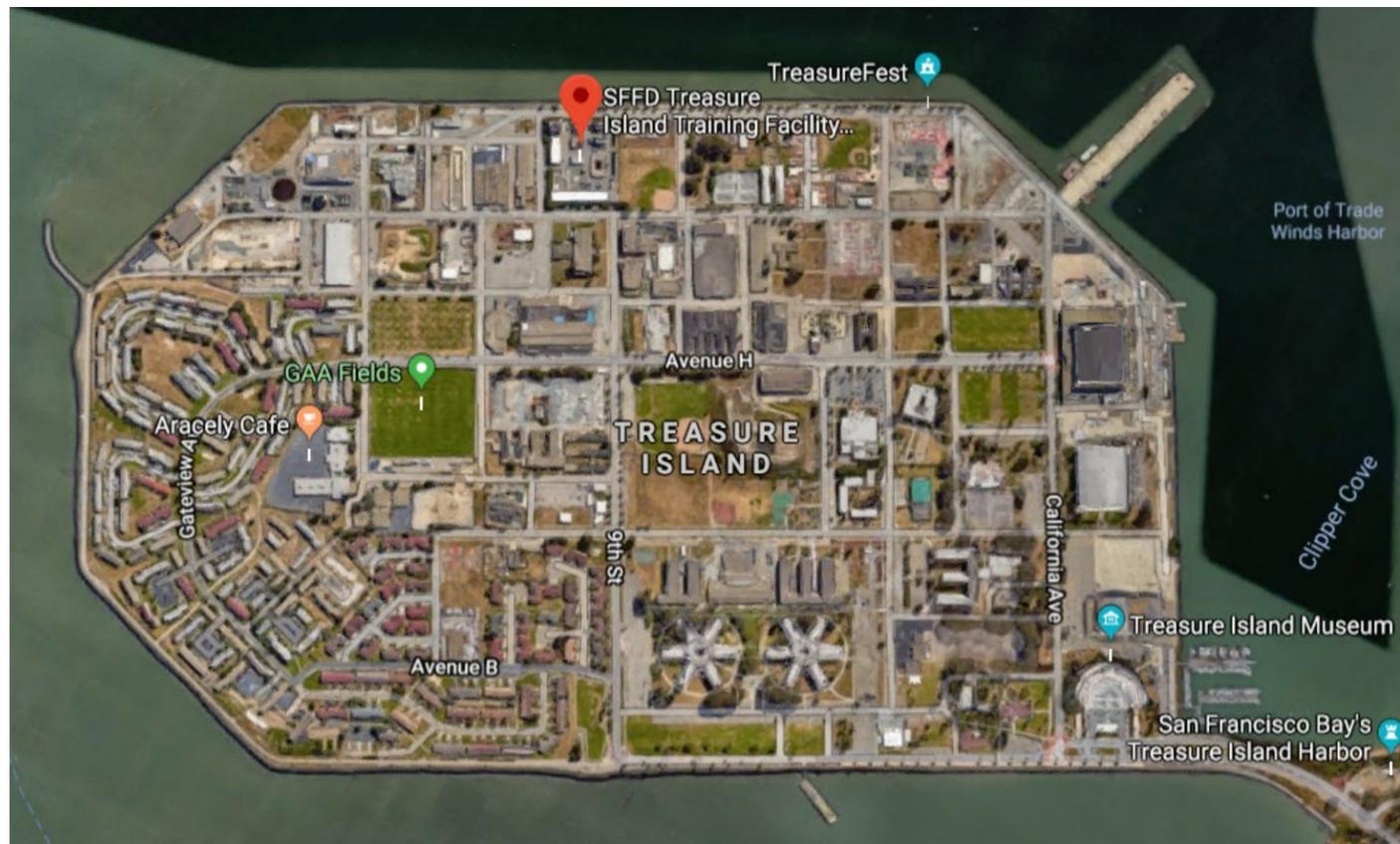
SAN FRANCISCO FIRE DEPARTMENT
TRAINING FACILITY

PRESENTATION TO FIRE COMMISSION | PRE-DESIGN PLANNING STUDY UPDATE March 27, 2019



TREASURE ISLAND FIRE FACILITY STATUS

- Treasure Island Development Authority (TIDA) has indicated that its development plan requires A SFFD departure from its training facilities on Treasure Island by 2024 to allow utilities infrastructure to be installed
- Location is intended to be an Open Space District



STUDIES

- *San Francisco Fire Department Non-Fire Facilities – Space Use Inventory and Assessment* by San Francisco Public Works (started, December 2017 – completed, March 2018)
- *San Francisco Fire Department Training Facilities – Facility Population Report* by San Francisco Public Works (started, June 2016 – completed, March 2018)
- *Pre-Design Planning Study* by Telamon / MWL (October 2018)
 - Identify facility uses, needs, and square footage required for functional site and facility 50+ year facility, including: Occupied Facilities, Non-occupied and Utilities Infrastructure



Pre-Design Planning Study
San Francisco Fire Department Training Facility

Prepared for:
San Francisco Public work

Prepared by:



October 25, 2018

EXISTING FACILITIES – Treasure Island and Division of Training

DEFICIENCIES AND CONSTRAINTS

- Two sites produces significant travel between sites; frequent training schedule changes
- Duplication of facilities and equipment
- Inefficient distances between facilities
- Site inhibited training conflicts
- Lack of facilities to properly train personnel in trench rescue, commercial flat roof ventilation, flammable liquid, gas and combustibles, emergency vehicle operation, wildland firefighting



EXISTING FACILITIES – Treasure Island and Division of Training

DEFINING CHARACTERISTICS/ATTRIBUTES

- Treasure Island – 4.75 ac. (former Navy shipboard firefighting training center)
- Division of Training at 2310 Folsom Street – 1.35 ac. (adjacent to Fire Station 7)
- Significant travel between sites; frequent training schedule changes
- Duplication of facilities and equipment
- Inefficient adjacencies
- Site inhibited training conflicts



CODE-MANDATED TRAINING

Training Evolution of Prop	Governing NFPA Standard	CA State Fire Training Curriculum	Applicable Legal Requirement
Trench Rescue Prop	NFPA 1006	Trench Rescue Technician	8 CCR SS 1540-1547
Confined Space Rescue Props	NFPA 1006	Confined Space Rescue Technician	8 CCR SS 5156-5159
Commercial Flat Roof Prop	NFPA 1001	FF-1 Course Plan	
Hazardous Materials Training Props	NFPA 472	FF-1 Course Plan, HazMat FRO	8 CCR SS 5192
Peak/Pitched Roof Prop	NFPA 1001	FF-1 Course Plan	
Class A Combustible Prop	NFPA 1001 & 1403	FF-1 Course Plan	
Class B Flammable Liquid & Gas Prop	NFPA 1001 & 1403	FF-2 Course Plan	
Standpipe/Sprinkler Prop	NFPA 1001	FF-1 Course Plan	
Urban Search & Rescue Rubble Pile	NFPA 1006	Rescue Systems 1, 2 & 3	FEMA Canine Search Certification Evaluation
Upper Windows w/Life Safety Anchor	NFPA 1001	FF Survival	
Water Rescue Training Facility	NFPA 1006 & 1670	Open Water Rescue, Rescue Boat Ops, Personal Rescue Water Craft	U.S. Coast Guard Training, Education and Licensing Reqs
Emergency Vehicle Operations Course	NFPA 1002	Driver Operator 1A	CA 2011 Assembly Bill 1648, Amended by 2014 CA Assembly Bill 2438, California Vehicle Code
Wildland Firefighting Training Area	NFPA 1001	FF-1 Course Plan	CA Fire Assistance Agreement (CFAA), Fire Management Assistance Grant (FMAG), California Incident Command Certification System (CICCS)
Guide to Building Fire Service Training Center, 2012 Edition	NFPA 1402		This Guide discusses in general the many goals, components and procedures involved with the development of fire service training facilities.
Standard on Live Fire Training Evaluation, 2002 Edition	NFPA 1403		Provides minimum requirements for conducting live fire training to ensure they are conducted in safe facilities and a safe manner for all participants.
Standard for Wildland Fire Fighter Professional Qualification, 2012 Edition	NFPA 1051		Addresses the unique skills and qualifications necessary for wildland fire fighting.

State Fire Training Curriculum Database | <http://osfm.fire.ca.gov/training/SFTCurriculum>

STUDY FINDINGS

Site Component Description		Component Standard SF	Site Footprint Area	Site Area Totals
----------------------------	--	-----------------------	---------------------	------------------

San Francisco Fire Department Facility Pre-Design Planning Study - Site Needs

Main Building Total Site Area Need	102,145	2.34
Separate Buildings and Areas	236,481	5.43
Subtotal of Site Square Footage	338,627	
Total Acres Required		7.77

The *Total Acres* indicated assumes single level facilities throughout a single site (except for the training tower); reduced acreage demand would be realized with multiple floors at Fire Training/Administration Building and reductions in the building program elements and areas

MAJOR PROGRAM AREAS

- Fire training Classrooms & Instructional Rooms
- Administration
- Apparatus Building
- Maintenance Shop
- Training Props
 - Search and confidence mazes
 - Training Tower
 - Victorian House/Burn Rooms
 - Commercial Burn Rooms
 - Container Burn Rooms
 - Mock BART station platform and train
- Exterior Props
 - Apparatus Training Hill
 - Drafting Pond
 - Roof props
 - Rubble pile/USAR prop – High angle rope rescue

SITE AND FACILITY NEEDS

FACILITY USERS

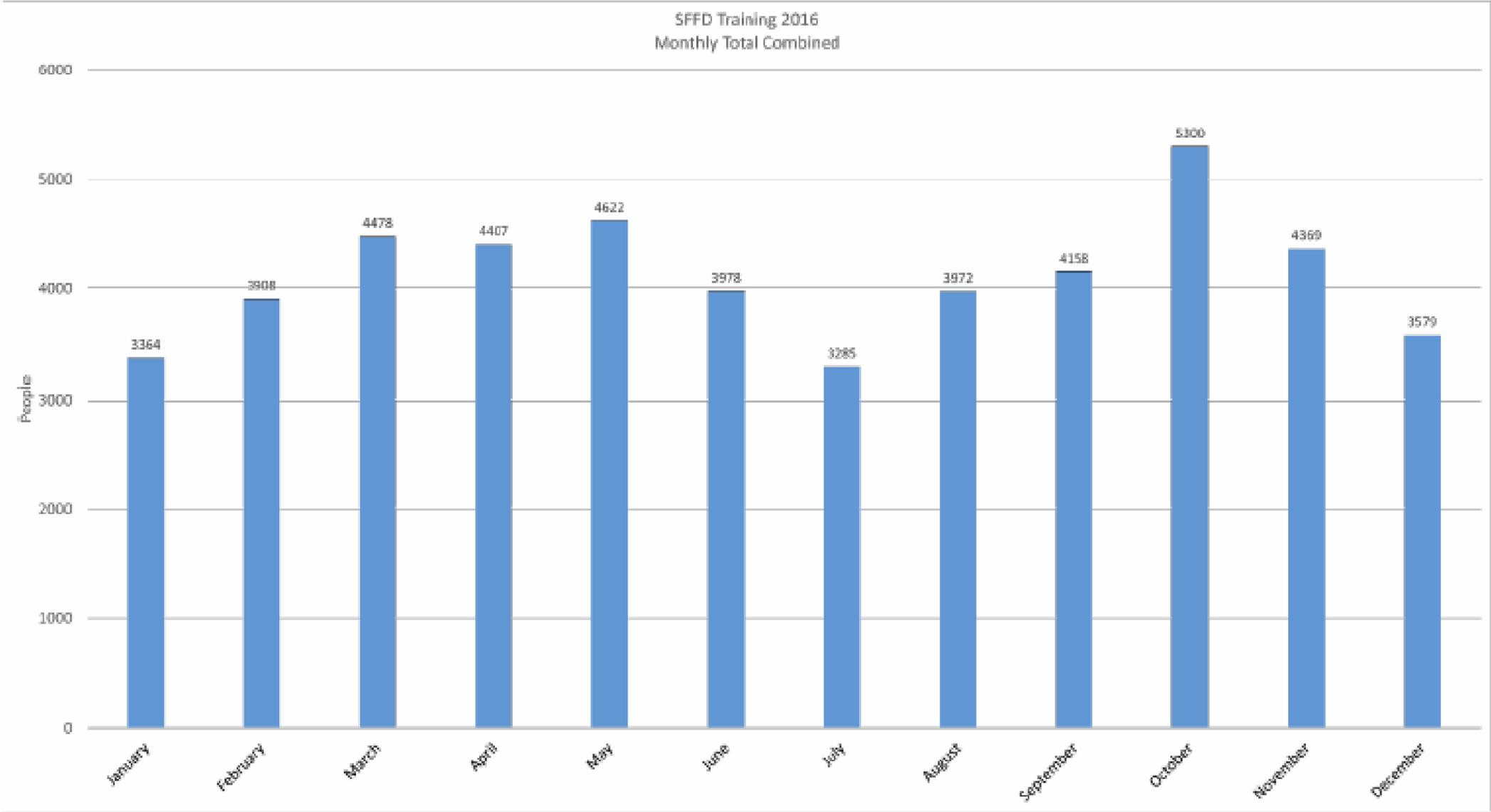
- **SFFD Firefighter Recruit Training Academy:** consists of daily classroom instruction followed by hands-on practical field training exercises and physical fitness training
- **Fire In-Service Training:** consists of engine and ladder companies training during their shift time to refresh or re-train on specific field props or scenarios with some limited classroom support required
- **EMS Academy:** provides both classroom and hands-on manipulative training and testing to both recruits and in-service Paramedics, EMTs and Firefighters
- **Partners & Committees:** Generally utilize the field training props during evening or weekends to supplement their programs with facilities that they do not otherwise possess
- **NERT Office:** consists of staff workstation(s), supply and storage spaces

STUDY FINDINGS

- Utilization by Facility Users
 - Fire In-Service training 45%
 - 41 specific/specialized training exercises/evolutions
 - Fire Academy 30%
 - Five-day a week, 20-week Fire Recruit Academy
 - Recruit class and instructors (up to 54 recruits with nine instructors)
 - EMS Academies 6%
 - Offered on a recurring basis lasting either eight weeks (H8 Academy), six weeks (H3L1 Academy), or three weeks (Bump-up Academy)
 - EMS In-Service 7%
 - Majority of licenses require recertification every 2 years
 - Partners & Committees less than 12%
 - Utilized by these entities often on weekends or evenings throughout the year

STUDY FINDINGS

MONTHLY USE ANALYSIS



- Overall, the total people count moving through the training facilities in 2016 was 49,220 – this equates to an average monthly usage of 4,118

NEW LOCATION

PREFERRED CHARACTERISTICS

- One site/location of approximately 7.0 acres +/-
- Adjacency to Bay shoreline for ease of water rescue training
- Within or reasonably adjacent to San Francisco



TRAINING PROPS



COLLAPSED STRUCTURE PROP



FIRE TOWER PROP



TILT WALL PROP



FIRE TOWER PROP



DRAFTING POND PROP



RUBBLE PILE PROP

TRAINING PROPS



PROPANE TANK FOR BURN PROPS



BART PLATFORM AND TRAIN



SAMPLE PROP FIELD OVERVIEWS

TRAINING PROPS



CONFINED SPACE (PIPE) PROPS



VEHICLE FIRE PROP



CONFINED SPACE (TRENCH) PROP



PITCHED ROOF PROP



VEHICLE EXTRICATION PROP

