



### Program of Requirements - Stakeholder Questionnaire and Interviews

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City of Taylor Mill, KY

New Fire Station Planning 03.07.2022

Program of Requirements Summary - Provided by Questionnaire/Interviews

Facility Use Groups - Access Required

Fire Department - Full and Part Time Employees

• Taylor Mill Residents

Public Works

• City Administration

Police

Apparatus Servicing

Refueling On.

Cleaning Inside Apparatus Bays
Maintenance FD (Minor)

Contract Entity Specialty Vendor (Major)

Parking Count Required (Min.)

Staff 15 Visitors 5

Station Type - Current Operations

Full Time/Part Time

Current Staff Levels/Shift

Future Staff Levels / Shift

Service Call Type Fire/EMS Ser

Service Area Suburban, Lt. Commercial, Lt. Industrial, Interstate Hwy.

Structure Fire Types Mid-Rise, Industrial, Suburban, Commercial Inspection Services? Yes

EMS/Paramedic Yes
Call return procedure Clean/Restock

Decon - Outside/Inside Inside
Storage/Restock Small Closet, Variety of Cabinets

HazMat Services Awareness-Level
Foam Storage 5-Gallon Buckets

**Known Deficiencies** Not currently zoned for proper staff decontamination,

3 to 4

5 to 6

lack of storage, no vehicle exhaust removal, poor drain system, no extractor, poor heating and insulation, limited electrical and water outlets, aging overhead

Yes, Full Time, Part Time and Auxillary

doors and systems, no room for spare equipment. Training Room

Double as Emergency Center?

Training Types Company, Department, Academy, EMS
Training Officer? Yes

Number of Shifts

**Current Equipment** 

**Future Equipment** 

Minimum Door Size

Air Fill System

**EMS Supply** 

Radio Calls

**Pagers** 

Administrative Spaces

Required?

**Private Offices** 

**Shared Offices** 

**Training Room** 

Copy/Fax/Supplies

**File Storage** 

**Work Areas** 

Library

Required?

**General Storage** 

Maintenance/Restock

Ceiling Height Required

Radio Charging/Number Reg.

**Response Station location:** 

Response Station needs:

Response Station/Dispatch Center

Hose Testing (Where)

Preferred Exhaust Extraction

Single Axel Custom Engine - 34

Squad 1 - 26'

Squad 2 - 26'

E801 - 34'

E802 - 34'

Car 825 - 17'

Car 826 - 17'

Parking Lot

Support 830 - 21'

Single Axel Quint - 44'

Hastings/Plymovent

True Cascade System

Dedicated Secure Storage

Communications Center Alertina

Firefighers (3-4), EMS (2)

General Meetings (6-8)

(Shared - Above)

In Training Room

Attached to Apparatus Bays - Visual Control

(4) - Chief, Asst. Chief, Shift Officer, Fire Marshall

Work Stations, Phones, Direct Access to Apparatus Bays

14' x 14' (Folding)

Apparatus Bay

Diaital Pagers

Yes - 22

Yes

Yes

20' Min.

**Apparatus Bay** 

Reference Storage? Yes
Accessible to the Public? Yes

cessible to the Public? Yes

ops? Yes, Classroom

Features/Equipment Needs Projector/Screen, Whiteboard, Data, Wall & Table

Kitchenette?

**Training Tower** 

Required? Yes. Existing is closing March 1, 2022

Training Goals 2-Story hose movement, anchor stations, confined space, window props, ladder training, search and

rescue.

Special Training Needs Rail Yard (May be used, in fire district)

Yes

Recliners

45

Fitness Room

Required? Yes
Occupant Load 4 to 5
Equipment by Owner/Vendor? Owner

Other users? City Staff (Police/City)

Outside Entrance? Yes
Shower/Lockers? Yes

Required?

Occupant Load 7 to 10
Open to Kitchen/Dining? Yes
Other Functions/Uses Study, Training

<u>Kitchen</u>

Seating Type?

No of Refrigerators 3
No. of Pantries 3
Emergency Operations Food? Yes
Used with Training Room? Yes
Exterior Gas Grill Required? Yes

Occupant Load (Served)

Dining Space

Required? Yes
Open to Kitchen? Yes
Open to Day Room? Yes
Open for Training Classes? Yes
Public Workshops No
Meetings or Study Yes

**Locker Rooms** 

Required? Yes

Personal Gear Location? Bunk Rooms, Locker Rooms

Locker Size 24 x 24

Quantity 20 - Mixed Men/Women

Toilet Room/Showers

Required? Yes
Towel Laundering By Staff

Sleeping Quarters (Bunkrooms)

Required? Yes

Current Rooms Required 5

Future Rooms Required 10

Sleeping Quarters Type Dorm-Style

Separate Rooms or Conjoined? Separate Rooms

Laundry Room

Required? Yes

Combine with Turnout Gear? No, Separate.

Uniform Cleaning? By Staff

Turnout Gear Cleaning (Where) On-site

Support Spaces

Turnout Gear Room

Additional Gear Storage

Gear Bags

Turnout Gear Sets

Total Sets of Turnout Gear

30 Current Sets + Spare Sets

Shop / Tool Room

Required? Yes
Heavy Vehicle Maintenance? Possibly
Tune-ups, Oil Changes Yes
Repair Lift Required? Would like one
Repair Pit Required? No
Minimum Clear Height Req. 20'
Air Compressor Required? Yes
Located Inside/Outside? Inside

Tools/Supplies Air Tools, Shop Tools, Tool Chests, Workshop Tabl

Miter Saw, Table Saw, Drill Press

Fire Hydrant Maintenance? No

Janitor/Cleaning Closet

Required? Yes

Equipment Stored (3) Mops, (4) Brooms, (4) Squeegees, (1) Buffer, (2)

Vacuums

Hose Storage / Tower

Hose Material / Drying Synthetic - Dry on Floor and place on apparatus

Hose Storage

(1) Rolling Rack: 5", 3", 2-1/2", 1-3/4", 1"

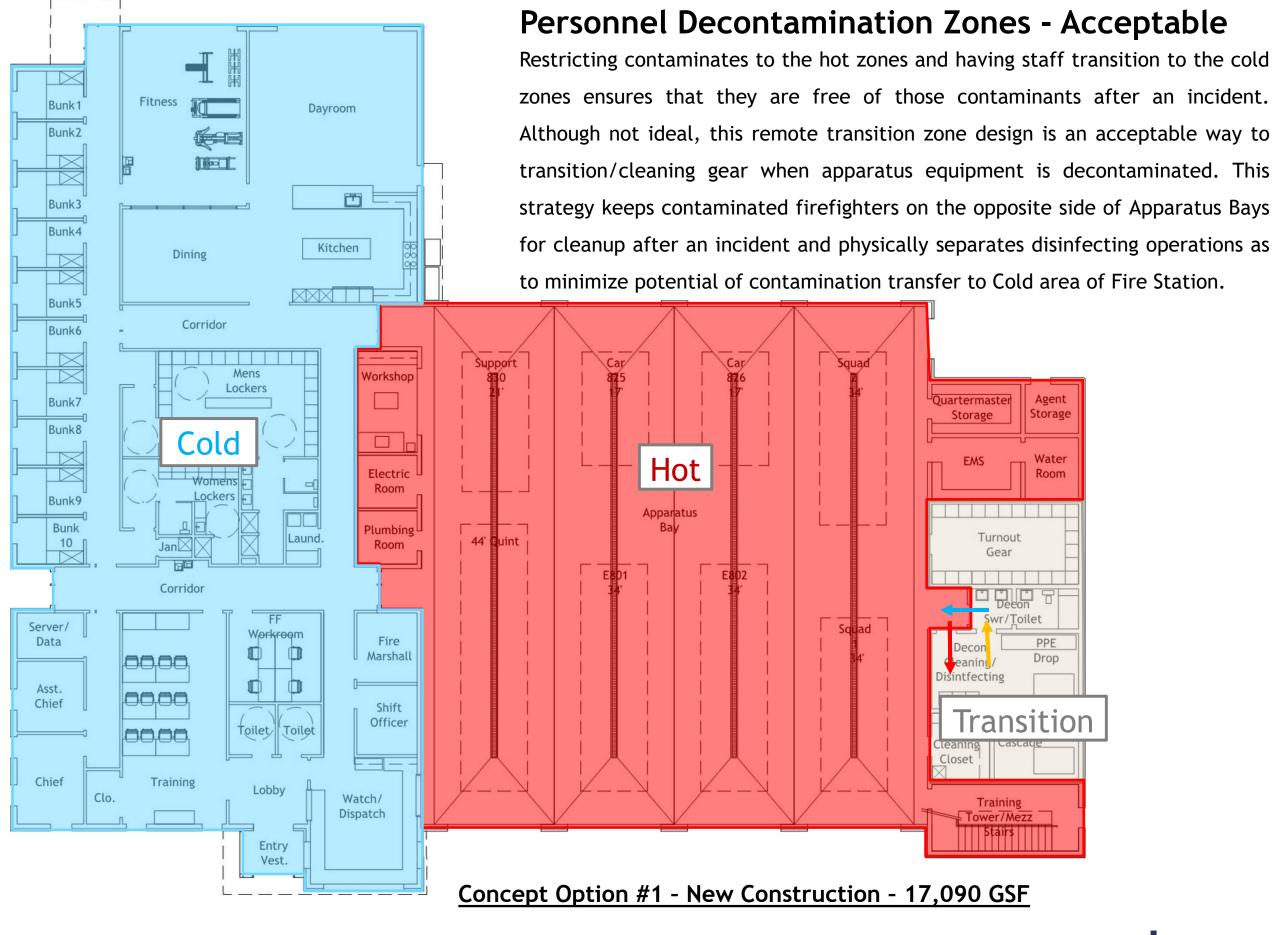
Decon/Cleanup Room

Deep Sink with Hands-Free? Yes
Decon Shower? Yes
Containment Sewer System? Yes
Drug Storage? EMS Ro

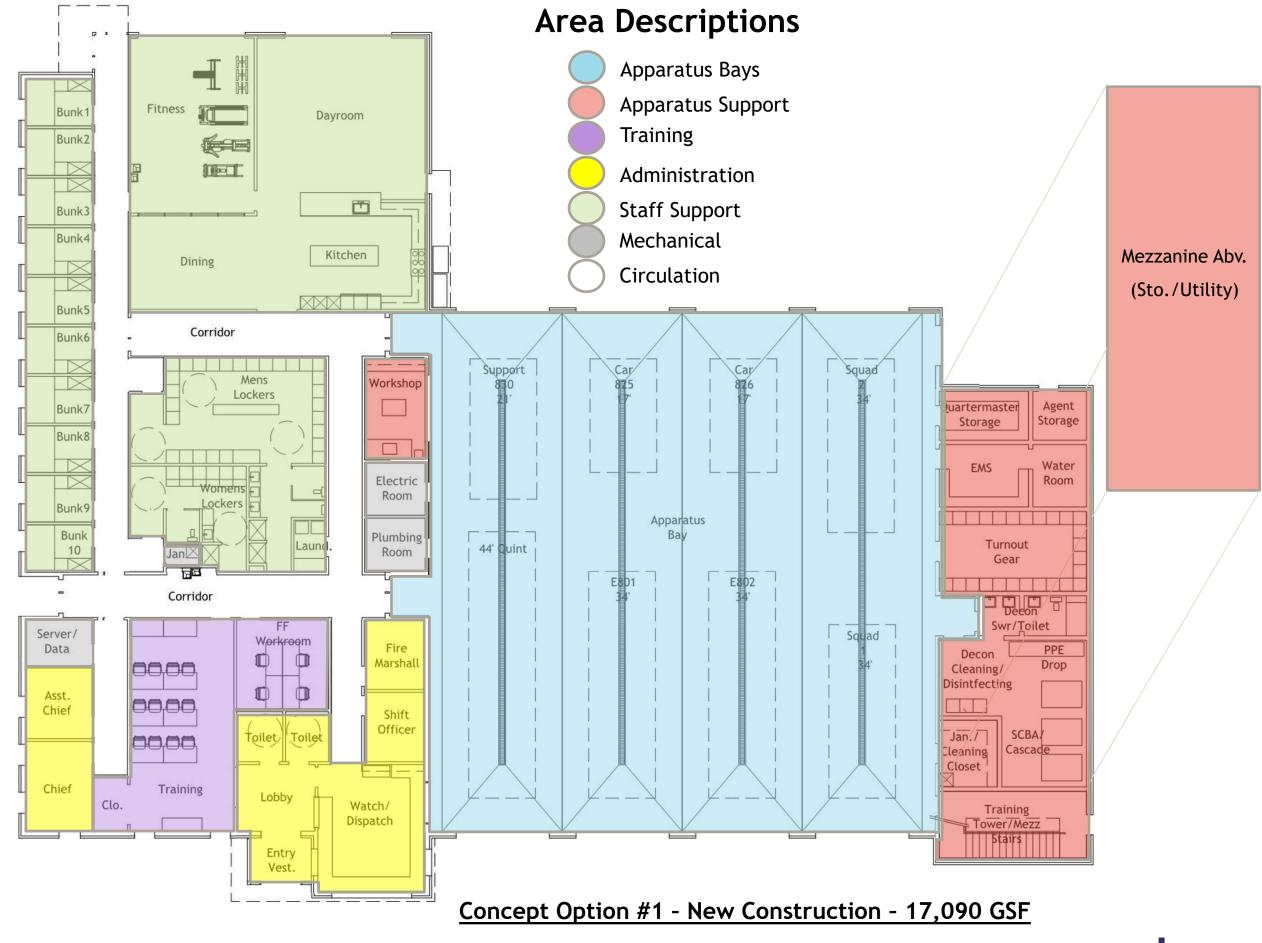
Other Needs/Spaces

Data/Server Room, CCTV for Station, Storage, Janito Closet, Public Safety Campus?, Vestibule, Decon Roo Storage for Yard Maintenance - Shed?, Storage Loft Electrical & Water Supply Drops, Electronic Station



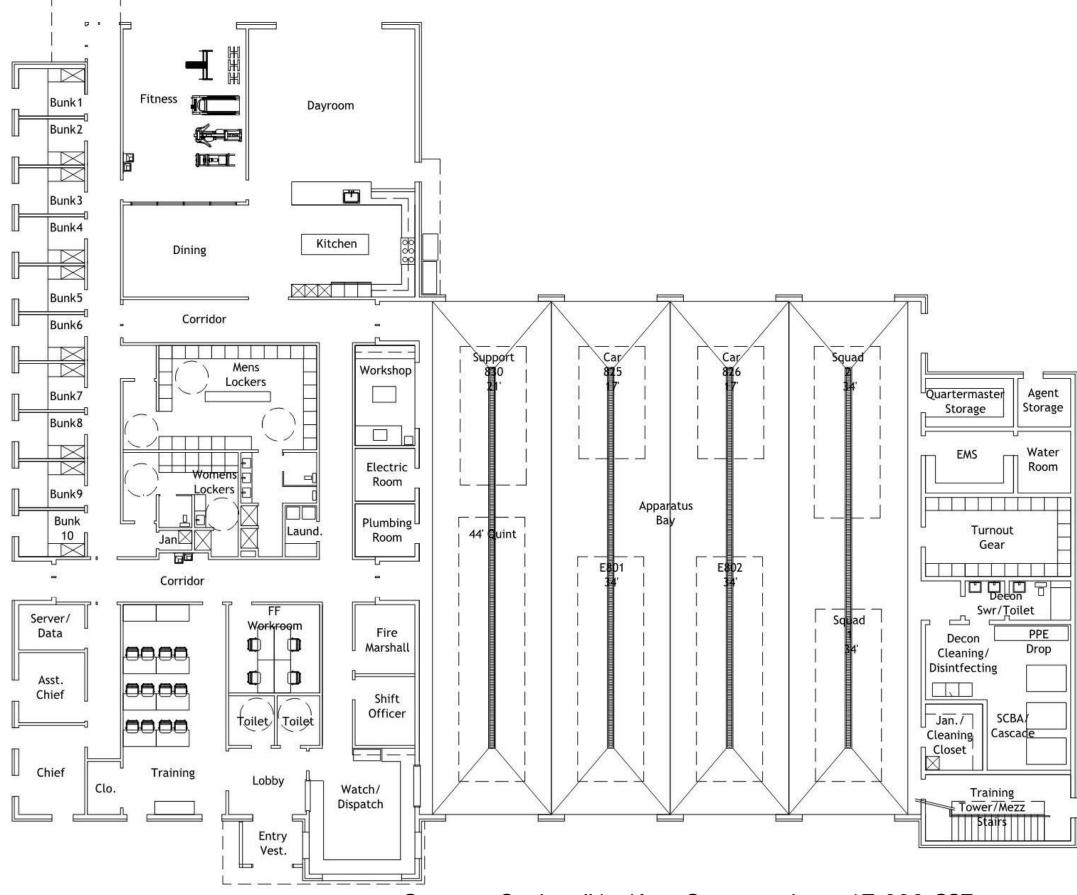








**Taylor Mill Fire Station Planning** 





Concept Option #1 - New Construction - 17,090 GSF

**Taylor Mill Fire Station Planning** 



Concept Option #1 Site Plan - New Construction



## Rough Order of Magnitude Opinion of Cost



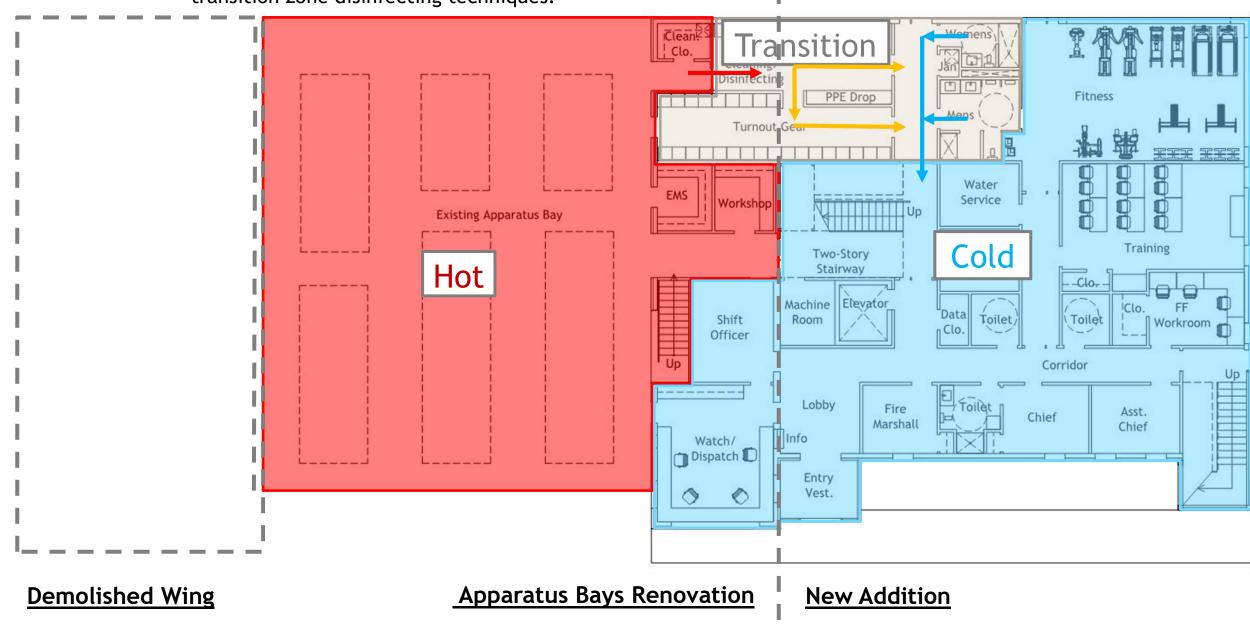
5/25/2022

PRELIMINARY COST ESTIMATE - Option #1 - New Construction					
Description	Quantity	Unit	Unit Cost		Total Amount
1. Existing Site Demolition - Existing Fire Station Admin Wing	1	Allowance	\$ 15,000	\$	15,000
2. Existing Site Rehabilitation - Seed/Straw/Fill	1	Allowance	\$ 5,000	\$	5,000
3. Rehabilitation Construction - Essential Wall/Roof Patch/Paint Existing Exterior Apparatus Bays	1	Allowance	\$ 20,000	\$	20,000
4. Base Plan - New Conditioned Admin Space, Slab-on-Grade, Steel Frame, Wd. Trusses, Brick	7,190	SF	\$ 435	5	3,127,650
5. Base Plan - New Utility Space/Apparatus Bays/Mezzanine	9,900	SF	\$ 250	\$	2,475,000
6. Basic Site Work, New Site Fill, New Lg. Engineered Detention Basin, New Sidewalk & Asphalt, New Utilities, New Retaining Walls	1	Allowance	\$ 700,000	\$	700,000
7. Site Signage/Wayfinding	1	Allowance	\$ 20,000	\$	20,000
Preliminary Opinion of Construction Cos	st			\$	6,362,650
A/E Fees, Permits, Geotechnical Testing & Contractor Costs (25%	6)		25.09	6 \$	1,590,663
Owner's Contingency (15%) + FF&E (5%	6)		20.09	6 \$	1,272,530



#### Personnel Decontamination Zones - Ideal

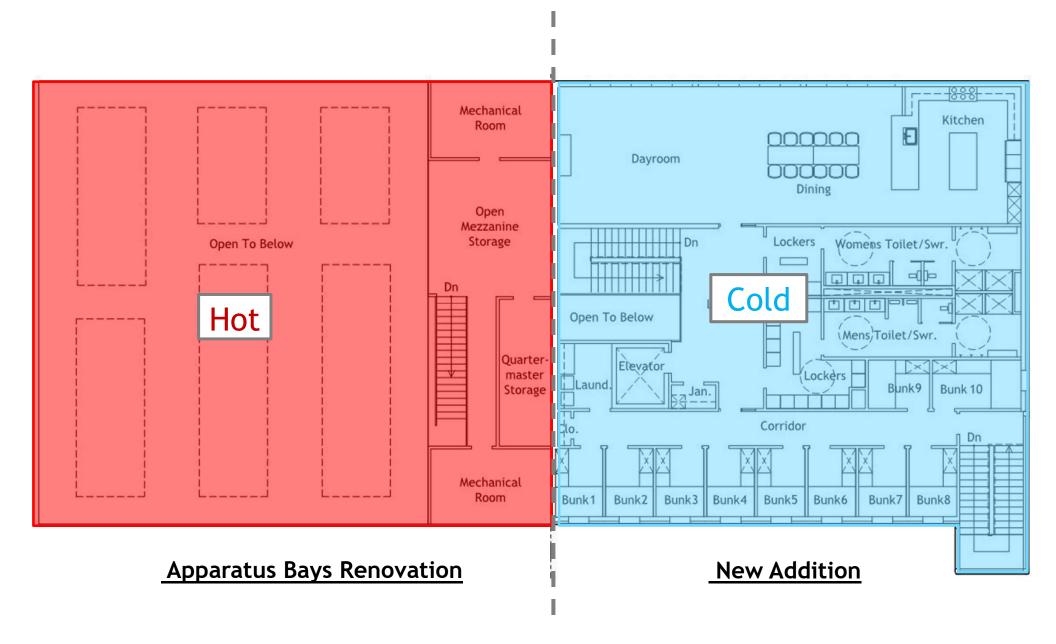
Incidents of cancers in the fire service are driving the need for staged fire station zones, which restricts cancer-causing contaminants from living areas in the station. This includes decontaminating equipment, gear and of course, people. Restricting contaminates to the hot zones and having staff transition to the cold zones without traversing through other spaces ensures that they are free of those contaminants after an incident. This zone design is optimized for clear staged transition zone disinfecting techniques.



Concept Option #2 1st Floor - Existing Renovation / New Building Addition - 15,975 GSF

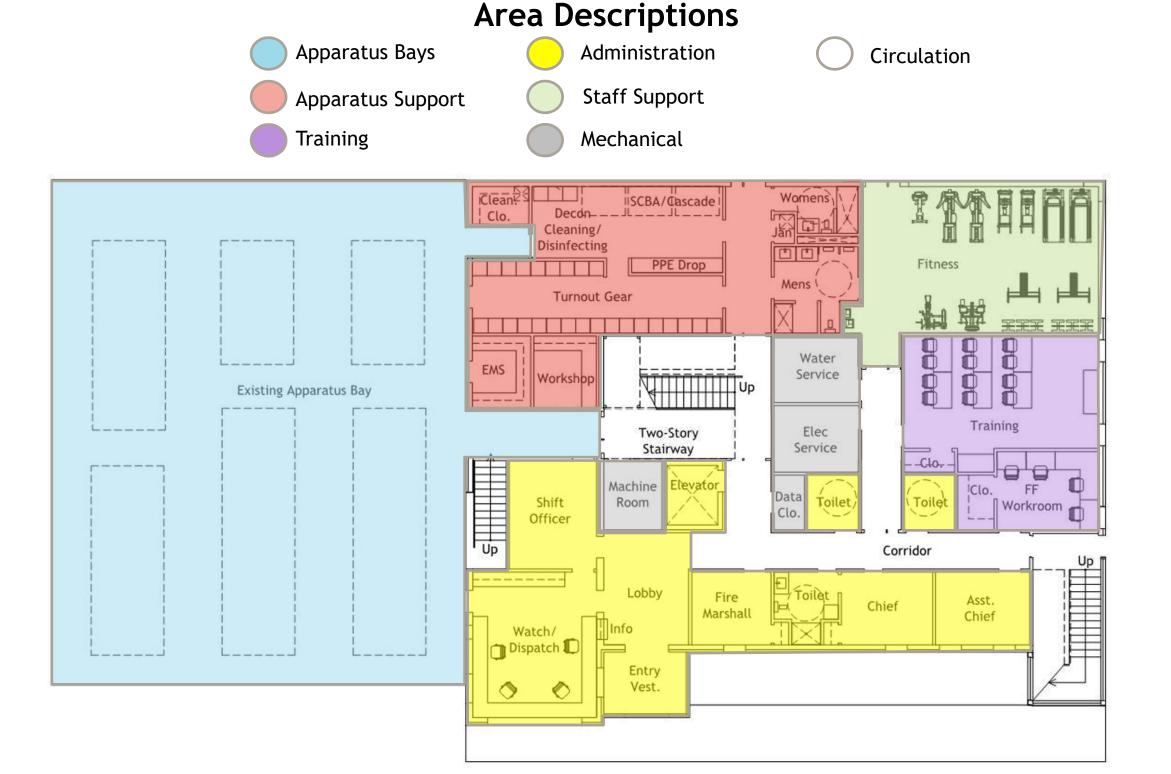


**Taylor Mill Fire Station Planning** 



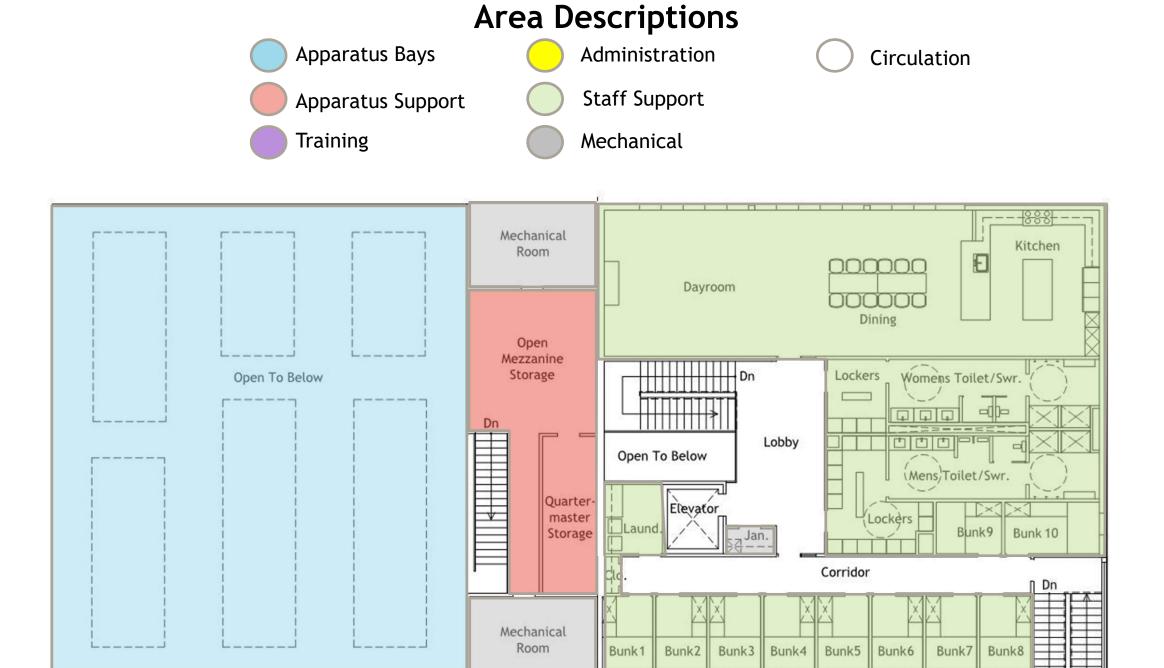
Concept Option #2 2<sup>nd</sup> Floor - Existing Renovation / New Building Addition - 15,975 GSF





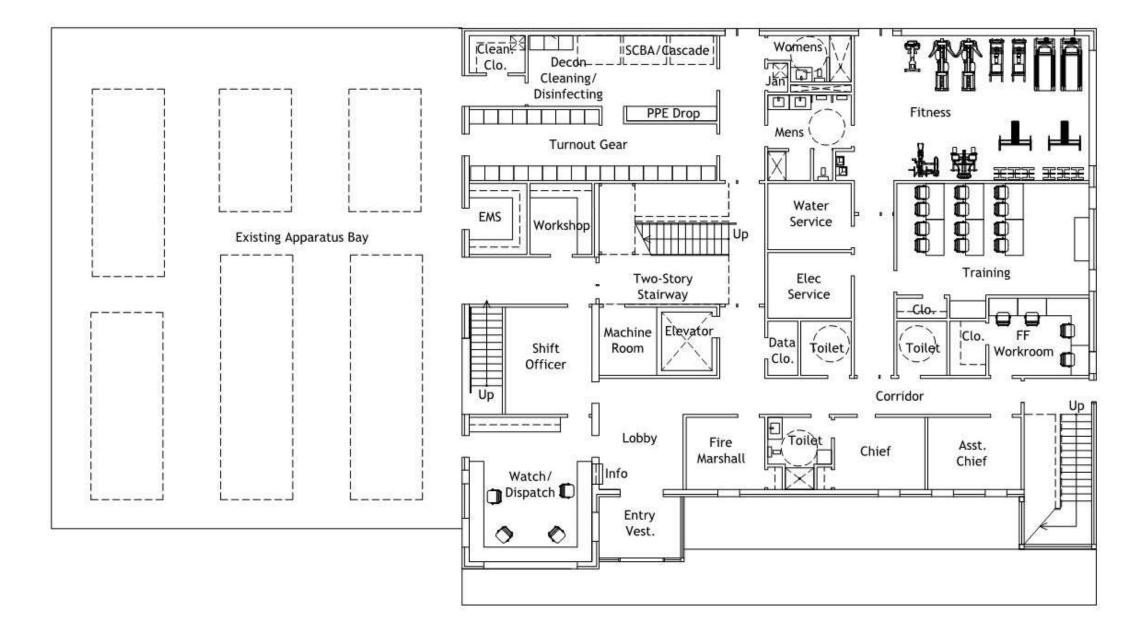
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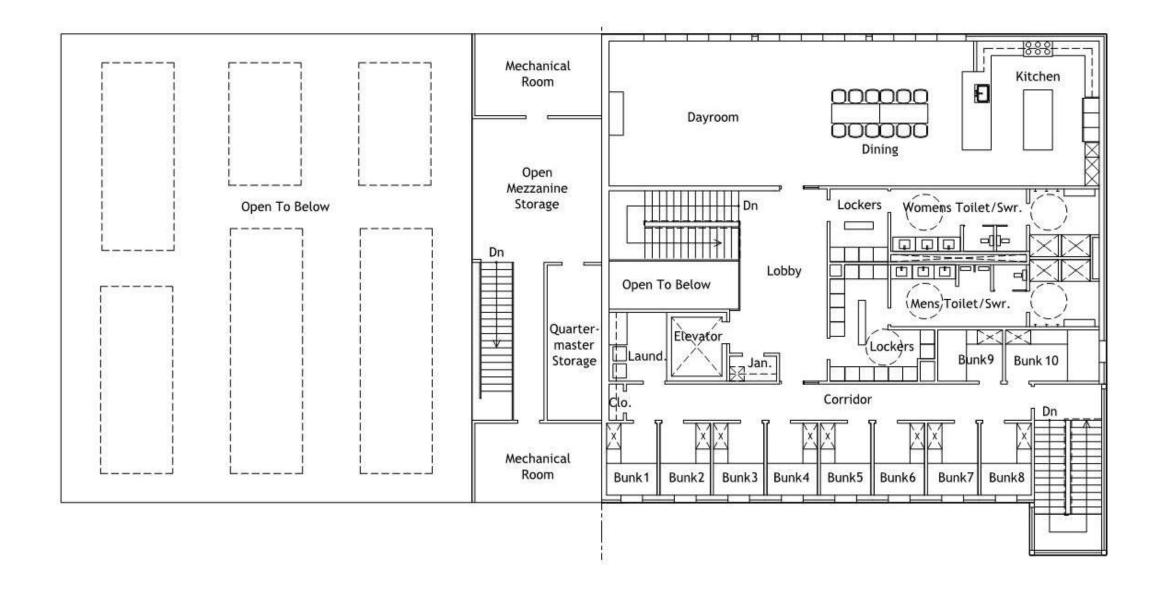
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Concept Option #2 1st Floor - Existing Renovation / New Building Addition - 15,975 GSF





Concept Option #2 2<sup>nd</sup> Floor - Existing Renovation / New Building Addition - 15,975 GSF





Concept Option #2 Site Plan - Existing Renovation / New Building Addition



## Rough Order of Magnitude Opinion of Cost



5/25/2022

#### Taylor Mill Firestation Concept Study - ROM Cost

#### PRELIMINARY COST ESTIMATE - Option #2 - Rehabilitate Existing Bays & New Addition

Description	Quantity	Unit	Ur	nit Cost		Total Amount
1. Existing Site Demolition - Existing Fire Station Admin Wing	1	Allowance	\$	15,000	\$	15,000
2. Existing Site Rehabilitation - Seed/Straw/Fill	1	Allowance	\$	5,000	\$	5,000
3. Rehabilitation Construction - Essential Wall/Roof Patch/Paint Existing Apparatus Bays/Tying into New Building Addition	1	Allowance	\$	40,000	\$	40,000
4. Base Plan - New Conditioned Admin Space, Slab-on-Grade, Two Story Steel Frame, Wd. Trusses, Brick/Metal Siding, Deep Footings or Helical Piers / Soil Stabilization	8,935	SF	\$	500	\$	4,467,500
5. Base Plan - New Heated Utility Spaces (Decon / Cleaning / Turnout, etc.)	1,040	SF	\$	175	\$	182,000
6. Base Plan - Light Refresh of Apparatus Bays/New Watch Dispatch & Shift Officer / New Mezzanine Structure/New Vehicle Exhaust Capture System (Plymovent)/New Locution Station Alert System/House PA/New Floor Drains	6,000	SF	\$	65	S	390,000
7. Basic Site Work, New Asphalt, Sidewalks, New Stormwater BMP	1.	Allowance	\$	150,000	\$	150,000
Preliminary Opinion of Construction Cost					\$	5,249,500
A/E Fees, Permits, Geotechnical Testing & Contractor Costs (25%)				25.0%	\$	1,312,375
Owner's Contingency (15%) + FF&E (5%)				20.0%	\$	1,049,900

Preliminary Opinion of Project Cost - Option 2	\$	7,611,775
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# **Interior Space Dimension Comparison**

Interior Space Dimensions by Concept			
Space	Version #1	Version #2	
Entry Vestibule	9' x 7'	10' x 9'	
Watch/Dispatch Office	16' x 19'	17' x 19'	
Typical Office	10' x 11'	13' x 10'	
Training Room	16' x 32'	27'x 15'	
FF Workroom	14' x 14'	14' x 11'	
Men's Lockers	24' x 16'	37' x 9'	
Women's Lockers	13' x 16'	37' x 9'	
Typical Bunkroom	10' x 7'	10' x 7'	
Kitchen	19' x 16'	17' x 20'	
Dining	19' x 14'	19' x 20'	
Dayroom	25' x 25'	24' x 20'	
Fitness	19' x 26'	32' x 20'	
Apparatus Bays	76' x 78'	57' x 70'	
Turnout Gear	22' x 12'	34' x 10'	
EMS	13' x 10'	8' x 10'	
Decon / Cleaning	22' x 22'	26' x 12'	
Mezzanine Storage	22' x 60'	18' x 42'	



