

REDSTONE ARCHITECTS INC.

Specialists in Law Enforcement, Justice, and Public Safety Architecture

ESTABLISHED 1937







Public Safety Feasibility Study

Public Safety Building Needs Committee

Novi, Michigan

January 02, 2024

Updated January 29, 2024







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EXECUTIVE SUMMARY

CITY OF NOVI PUBLIC SAFETY DEPARTMENT CAPITAL IMPROVEMENT STUDY

HISTORY:

<u>2022</u>: The City of Novi initially engaged Redstone Architects in 2022 to study the possibility of renovating the existing Public Safety Building to accommodate a number of deficiencies identified by the department. The current facility contains about 38,000 square feet. An internal 2021 departmental study identified a number of space and operational deficiencies.

Submitted in December 2022, the study included the development of a Space Needs Assessment for the Police Department that identified current needs and future needs, as well as identifying spaces that the City wanted to maintain in the building for other departments within the city.

The first option included the renovation of the existing Public Safety Building to accommodate the police department's space needs. This option was deemed not to be viable.

Redstone was then asked to look at adding an addition to the north side of the Public Safety Building (option 2). The Initial cost projection to implement the second option (renovation plus an addition) was approximately \$7,000,000.

<u>Spring, 2023:</u> In the Spring of 2023 Redstone was asked to develop a Space Needs Assessment for a **new** Public Safety Building ("PSB"), which would also include Fire Station #1. Most of the police needs were identified in the prior renovation study, which was updated. In addition, Redstone was asked to identify the space needs to replace Fire Stations #1, #2 and #3 with new facilities. Redstone worked with the City to identify the needs of the three facilities, and to develop test fits for potential locations for the facilities.

October 2023: Redstone met with the Public Safety Committee and presented its initial findings for the needs of a new Public Safety Building and for Fire Stations #1, #2, and #3. Presented were diagrammatic site plans, which included keeping the existing Lee BeGole Drive because of utilities. The Committee asked that Redstone develop a new layout that combines the PSB and Fire Station #1 into one building.

In addition, the Committee requested that Redstone provide a Run Time Analysis (RTA) for the entire City to determine potential locations for future fire stations to serve the community in the future. Redstone engaged Beckett and Raeder to accomplish this effort. The City provided potential locations for the possible new stations, one of which would serve the southwest corner of Novi and the second to serve the northwest section of Novi. The RTA showed that approximately 93% of existing calls and 89% of the responses to future calls for service would be within five (5) minutes. A copy of the RTA is attached to this report.



SPACE NEEDS ASSESSMENT for a NEW PUBLIC SAFETY BUILDING:

Working with members of the police and fire departments, an updated space needs assessment was developed for the new PSB, which resulted in the following summary:

Public Safety Building Campus:

- Police and Administrative Operations, including shared spaces: 53,776 sf;
- Fire Station #1 Operations- 18,942 sf. (Four-Bay Station)
- Fleet Maintenance Garage: 6,398 sf.

Station #1 is planned to have four, single-deep bays, and will also include a Captain's suite and a Fire Inspector. No public access to station operations is anticipated.

<u>Fire Station #2 and #3</u>: Each station is programmed for three, single-deep bays. Each station is estimated to need approximately 14,500 sf. Included are sleep rooms for five, on-duty personnel. Station 2 is also programmed to include a Lieutenant's office and separate sleep room. Three Sleep Rooms are provided for Superior EMS staff at both proposed stations.

CONFIRMATION OF SITE CAPACITIES:

Site information was provided for three potential sites, as follows:

- Public Safety Building Site: a new site on the northwest corner of Lee BeGole Drive and 11 Mile Road. This site is to be combined with the City's existing property on the Northeast corner of the intersection. It is contemplated that Lee BeGole Drive will be relocated as part of this development.
- 2. **Station #2 Site**. A new facility on the existing property located at 13 Mile Road and Paramount Street, approximately 0.64 acres.
- 3. **Station #3 Site**. A new facility on a parcel on Venture Drive north of Nine Mile Road. of approximately, 1.76 acres

Redstone then developed block diagrams for each site to confirm that the sites were sufficient to accommodate the new facilities.

PUBLIC SAFETY BUILDING CAMPUS SITE (including Fire Station 1)

The Currently owns the property on the Southeast corner of 11 Mile Road and Lee BeGole Road. It has acquired the property on the Northwest corner of that intersection. The intention of the city is to reroute Lee BeGole and to create a roundabout to the east. Redstone was given the combined sites to determine the feasibility of a new, Public Safety Building and Fire Station #1 at this location.

At the October 2023 committee meeting, Redstone presented a concept that showed two buildings, a relocated Fire Station #1, and the Public Safety Building. After combining the two facilities into one building, the new square footage is projected to be about 72,240sf, about

4,500sf less than two separate buildings. Please note that Station #1 is programmed to be a four-bay station.

FEMA maps and other reference material are included. There is a creek running from the northwest to the southeast of the property. This creek is few hundred feet north of 11 Mile, and its eastern portion is considered to be in a flood plain. The buildings need to be located south of the flood plain areas.

The existing utilities in the Lee BeGole ROW/street will need to be relocated as part of the road relocation to allow for this site to be developed properly.

We were subsequently asked to present two cost options for the PSB/Fire Station 1 scenario. The two options are:

1. Separate Fire Station #1 from the BSP Building on the Lee Begole site, similar to the site plan presented in October 2023.

A copy of the site plan showing two separate buildings has been added. At this point in time, site development costs should be similar for either option at the lee BeeGole site.

2. Build a new PSB at Lee BeGole Drive and Station #1 at its current location on Grand River.

The existing Station #1 is a 10,000sf facility that sits on a site that is approximately 45,000 to 50,000sf, or a little over one acre in size.

Based on the current space needs program of almost 19,000sf for a new Station 1, any new station built on the site would, at a minimum, require a two-story facility. A two-story design would require a minimum increase of about 1,000sf for fire stairs and utility shafts.

In addition, the new program calls for four apparatus bays, which will increase required ingress and egress apron widths from the existing three bays and will impact curb cuts on on both Grand River and the south ingress access to the west of Main Street.

We believe this site to be too small for an efficient design for a new fire station.

STATON 2 SITE. The site dimensions are 102' x 271', or about 0.64 acres. It was anticipated by the City that the station would be torn down and a new, two-story station could be accommodated on this site.

Our Initial site investigation indicates that only a two- bay station of approximately 13,000 square feet could 'fit' on this site regardless of whether it is a one or two-story building.

A one-story site and building layout is attached for review and discussion. This solution has a number of drawbacks, including minimal setbacks, public parking access through apparatus egress lanes, etc.

A two-story solution would necessitate two means of egress from the second floor, effectively adding a minimum of two, $12' \times 30'$ stairwells, or another 700sf to the building requirements. More importantly, due to the narrowness of the lot, there is no convenient place to locate the stairwells next to the apparatus bay.

In both scenarios public visitors will need to access the site via the apparatus ingress approach.

Redstone's opinion is that the existing site should not be considered as the site for the new station #2. The city's potential investment of \$7,500,000 is too significant to be put on such a small site. This site is too small for an efficient fire station site that incorporates the space needs site and that also provides for fire fighter parking and occasional (and non-conflicting) public access with appropriate parking.

A new site for Station #2 of approximately two or more acres is strongly recommended.

STATION 3 SITE.

The proposed site for Station #3 is on Venture Drive, north of Nine Mile Road. The dimensions are approximately 308 x 245' or about 1.73 acres.

The requirements identified in the Space Needs Assessment can be accommodated on this site. A conceptual site and floor plan are attached to this study.

This concept also confirms that approximately two acres or more would be needed for any new sites being considered.

PROJECT COSTS

Based on our recent project cost projections and information obtained at the 2023 Station Design Conference, we have developed a high-level Project Budget for the new facilities.

In addition, O'Brien Construction Company was engaged to provide an initial construction cost estimate for a combined PSB/Fire Station #1 on the Le BeGole site as well as an initial estimate for the Maintenance Building.

Timetable Assumptions:

- Voter Approval in the Spring of 2024.
- Design efforts: through 2024.
- Bidding: late 2024- Early 2025
- Construction: 2025- 2026 (18-24 months)

PROJECT COST ASSUMPTIONS:

Project Costs include Construction Costs (including contractor OH & profit) plus Soft Costs.

Soft costs are an allowance (percentage of construction costs) that include:

- Professional fees
- Furniture, Fixtures and Equipement
- Owner Costs
- Security and Technology

For Public Safety Buildings we recommend a soft cost allowance of 20 to 22%.

Our preliminary project cost projections following the assumptions listed above (for 2024 approval and design with 2025- 2026 construction) use our current and historical data from recent projects and studies, as well as estimates provided by O'Brien Construction for the combinded PSB/Fire Station #1 and maintenance garage:

- 1. Fire Stations: (Historic Data) 2023 projection: \$400/sf + 20% soft costs = \$480/sf;
 - Projected to 2025-2026- 15% = \$550/sf
- <u>2.</u> <u>Public Safety Building including Fire Station #1</u>. O'Brien Construction Estimate: \$450/sf plus 22% soft costs = \$550/sf:
 - Projected to 2025-2026 +15% = \$633/sf.
- 3. 2023 Fire Station (Historic Data) new Construction Project Budget- (2024-2025 construction); \$550-600/sf.
 - Projected to 2025-2026 =+ 5% + \$625/sf.
- <u>4.</u> <u>Fire Stations</u>: (Current Data) Recently Completed Study: \$460 + 20% soft costs = \$550/sf;
 - Assumes Spring 2025 construction start
- Maintenance Building. O'Brien Construction Estimate: \$250/sf + 20% soft costs= \$300/sf.
 - Projected to 2025-2026 + 15% = \$345/sf; Use \$350/sf



PROJECT FUNDING RECOMMENDATIONS:

For Bonding or Voter Approval purposes, we recommend using the following Project Budget Estimates, which include hard and soft costs for 2025-2026 construction:

• PSB, including Fire Station 1: \$650/sf.

Fire Stations #2 & #3: \$560/sfMaintenance Building: \$350/sf.

• For new stations in SW & NW Novi: \$650/sf. (site and date of construction unknown)

Building	SNA Projected Sq. Footage	Construction Time Period (18-24 months)		Estimated PROJECT Cost/SF (Hard + Soft Costs)	ESTIMATED COST PER PROJECT
New, Combined Public Safety Building and Fire Station #1	72,240	2025-2026		\$650.00	\$46,956,000
Mtnce. Garage	6,400	2025-2026		350.00	2,240,000
PSB Site Development	+/- 8.1 acres	2025-2026		Included above	
Fire Station #2	14,500	2025-2026		\$560.00	8,120,000
Fire Station #3	14,500	2025-2026		\$560.00	8,120,000
New SW Fire Station	14,500 (assumed)	TBD		\$650.00	9,425,000
New NW Fire Station	14,500 (assumed)	TBD		\$650.00	9,425,000
				SUBTOTAL	84,286,000
Owner Budget and Tim	ing Contingency	10%			8,428,600
TWO NEW STATIONS	OJECTED COSTS TO	REPLACE THREE EXIS	TING	STATIONS AND TO ADD	\$92,714,600
OPTION 1. SEPARATE F October presentation)				BEGOLE SITE: (per	
NEW PSB (two-story at 29,000sf/floor)	58,000sf	2025-2026	\$65	50.00	\$37,700,000
NEW FS #1	18,942sf +/-	2025-2026	\$56	50.00	\$10,607,520
				Subtotal:	\$48,307,520
				Potential Increase	\$1,351,520
		Plus: Owner tin	ning	and contingency@ 10%	\$131,500
	•			Project Cost Projection	\$1,483,000
OPTION 2. BUILD A PS					
EXISTING LOCATION & Compare to Line one a					
NEW PSB	58,000			\$37,000,000	
NEW FS #1	20,000sf +	/- 2025-2026			\$11,200,000
(1,000	sf added for 2-stor				\$48,200,000
	\$1,244,444				
Plus: Owner timing and contingency@ 10%					\$124,400
	Option 2. 1	Total Potential Increa	se to	Project Cost Projection	\$1,368,400



RUN TIME ANALYSIS

City of Novi Fire Study

Initial: 11/20/2023

Revised: 12/07/2023

Data Used in the Study

- Calls from Jan. 2017 Nov. 2023
- 28,612 total calls

Variables

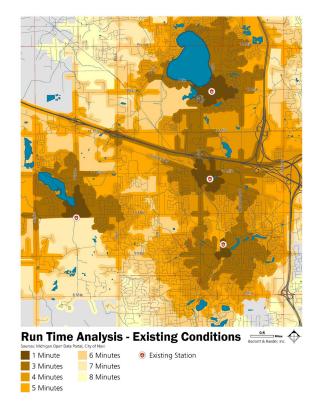
- 10mph over speed limit
- Ignore traffic lights and stop signs, but slow down at intersections
- Routes **allowed** outside City limits
- Freeway use allowed
- U-turns at intersections allowed
- Use of private roads allowed

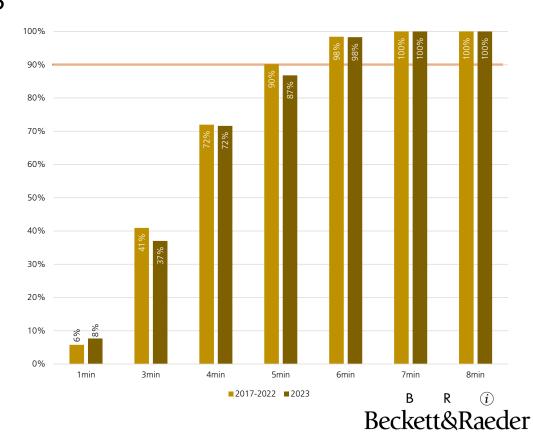


Variables - Traffic

- Modeled at 1 time: Monday afternoon rush hour
 - Free Flowing: 85% 100% flow speed
 - Moderate: 65% 75% flow speed
 - Slow: 45% 65% flow speed
 - Stop & Go: 0% 45% flow speed
- ESRI World Traffic Service (HERE.com)
 - GPS, cell phone, user sensor, toll-tag data

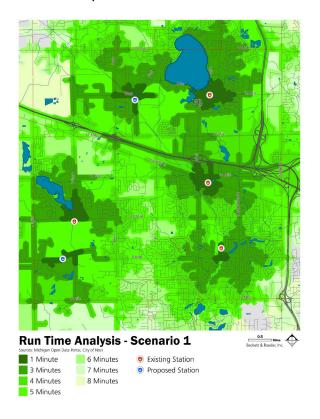
Existing Conditions

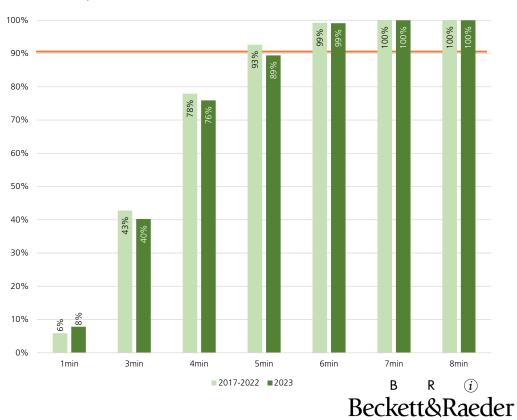




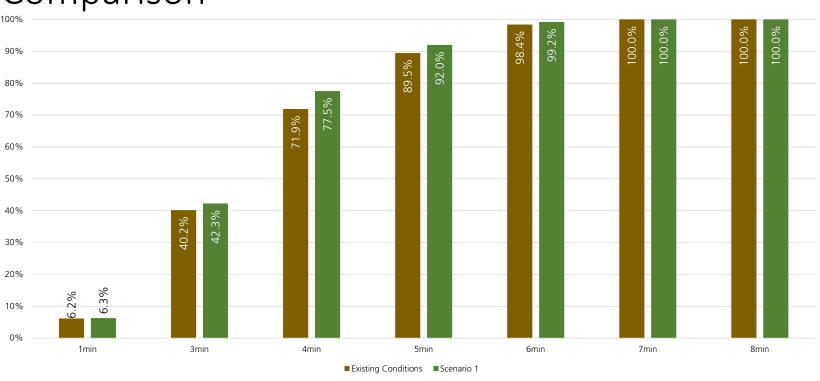
Scenario 1

- All 4 Existing Stations
- Two Proposed New Stations Nine Mile & Garfield Road; West Park & West Road

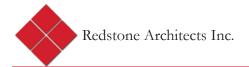




Comparison







COST PROJECTIONS



Quote: 1334 / Date: 12/7/2023 Project Number: PC-22013

O'Brien Construction Company, Inc 966 Livernois Troy, MI 48083, US (248) 334-2470

Prepared By: Mike Brown (248) 334-2470 mbrown@obriencc.com

Project: Novi Police & Fire

Scope of Work

Public Safety Building: No bonds, permits, tap fees, utility fees, or other municipal fees are included. No communications tower is included in this estimate. All pricing is based on OCC's historical pricing and provided conceptual drawings and is subject to change as the design is further developed.

01-000 - General Requirements

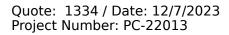
04-544 CMU Walls	32,400 ea	\$ 38.00	\$ 1,231,200.00
	Quantity	Unit Cost	Total Cost
04-000 - Masonry			
			\$ 1,338,850.00
03-310 Concrete Slabs On Deck	23,700 ea	\$ 12.50	\$ 296,250.00
03-310 Concrete Slabs On Grade HD	10,300 ea	\$ 12.50	\$ 128,750.00
03-310 Concrete Slabs On Grade SD	38,300 ea	\$ 9.50	\$ 363,850.00
03-300 Concrete Foundations	2,200 ea	\$ 250.00	\$ 550,000.00
	Quantity	Unit Cost	Total Cost
03-000 - Concrete			
			\$ 315,100.00
01-914 Dumpsters	82 ea	\$ 550.00	\$ 45,100.00
01-816 Site Layout	1 ea	\$ 25,000.00	\$ 25,000.00
01-600 Temporary Services	1 ea	\$ 95,000.00	\$ 95,000.00
01-500 Quality Testing	1 ea	\$ 25,000.00	\$ 25,000.00
01-302 General Liability	1 ea	\$ 125,000.00	\$ 125,000.00
	Quantity	Unit Cost	Total Cost



Quote: 1334 / Date: 12/7/2023 Project Number: PC-22013



	Quantity	Unit Cost	Total Cost
04-520 Brick Veneer	23,800 ea	\$ 28.00	\$ 666,400.00
			\$ 1,897,600.00
05-000 - Metals			
	Quantity	Unit Cost	Total Cost
05-510 Metal Stairs	3 ea	\$ 35,000.00	\$ 105,000.00
05-200 Structural Steel	23,700 ea	\$ 40.00	\$ 948,000.00
05-400 Cold Formed Metal Framing	48,600 ea	\$ 35.00	\$ 1,701,000.00
			\$ 2,754,000.00
06-000 - Carpentry			
	Quantity	Unit Cost	Total Cost
01-922 Final Clean-Up	72,300 ea	\$ 1.25	\$ 90,375.00
06-200 Rough Carpentry Material - Misc. Allowance	72,300 ea	\$ 1.50	\$ 108,450.00
06-204 Rough Carpentry Labor - Misc. Allowance	72,300 ea	\$ 1.50	\$ 108,450.00
06-450 Finish Carpentry Material	62,000 ea	\$ 2.50	\$ 155,000.00
06-460 Finish Carpentry Labor	72,300 ea	\$ 4.00	\$ 289,200.00
			\$ 751,475.00
07-000 - Thermal & Moisture Protection	Over with	Hait Oaat	T-4-1 O4
07 200 Waterproofing	Quantity 2 ea	Unit Cost \$ 10,500.00	Total Cost \$ 21,000.00
07-200 Waterproofing	72,300 ea	\$ 10,300.00	\$ 253,050.00
07-210 Insulation	326 ea	\$ 1,200.00	
07-500 Pitched Roofing			\$ 391,200.00
07-500 Flat Membrane Roofing	23,700 ea	\$ 24.00	\$ 568,800.00
07-800 Fire Proofing and Fire Safing	23,700 ea	\$ 1.50	\$ 35,550.00
07-900 Caulking and Sealants	72,300 ea	\$ 1.50 	\$ 108,450.00 \$ 1,378,050.00
08 000 Openings			
08-000 - Openings		11.21.0	T. () O . (
	Quantity	Unit Cost	Total Cost
08-200 Doors, Frames, Hardware Allowance	1 ea	\$ 315,000.00	\$ 315,000.00
08-310 Access Doors and Panels Allowance	1 ea	\$ 5,000.00	\$ 5,000.00
08-330 Apparatus Bay Doors	10 ea	\$ 25,000.00	\$ 250,000.00
08-330 Sally Port & Forensic Garage Overhead Doors	5 ea	\$ 7,500.00	\$ 37,500.00
08-400 Aluminum Storefronts	850 ea	\$ 50.00	\$ 42,500.00



OBRIEN
CONSTRUCTION COMPANY, INC.

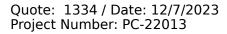
	Quantity	Unit Cost	Total Cost
08-400 Aluminum Storefronts - Door Slabs & Hardware	6 ea	\$ 6,000.00	\$ 36,000.00
08-500 Windows Allowance	1 ea	\$ 250,000.00	\$ 250,000.00
08-116 Detention Equipment Allowance	1 ea	\$ 575,000.00	\$ 575,000.00
			\$ 1,511,000.00
09-000 - Finishes			
	Quantity	Unit Cost	Total Cost
09-200 Gypsum Board Assemblies - Partitions & Drywall	30,000 ea	\$ 34.00	\$ 1,020,000.00
09-200 Gypsum Board Assemblies - Furring & Drywall	17,900 ea	\$ 5.00	\$ 89,500.00
09-200 Gypsum Board Assemblies - Ceilings	72,300 ea	\$ 4.00	\$ 289,200.00
09-300 Hard Tile - Floors	730 ea	\$ 18.00	\$ 13,140.00
09-300 Hard Tile - Walls	900 ea	\$ 22.00	\$ 19,800.00
09-510 Acoustical Ceiling Tile	36,400 ea	\$ 5.50	\$ 200,200.00
09-650 Resilient Flooring	62,000 ea	\$ 6.00	\$ 372,000.00
09-670 Epoxy Flooring	10,300 ea	\$ 9.00	\$ 92,700.00
09-900 Painting, Staining and Finishing	72,300 ea	\$ 5.00	\$ 361,500.00
10-000 - Specialties	Quantity	Unit Cost	Total Cost
10-202 Signage	1 ea	\$ 25,000.00	\$ 25,000.00
10-210 Toilet Partitions Allowance	1 ea	\$ 6,500.00	\$ 6,500.00
10-280 Toilet and Bath Accessories	12 ea	\$ 650.00	\$ 7,800.00
10-440 Fire Protection Specialties	25 ea	\$ 400.00	\$ 10,000.00
10-510 Lockers and Benches - Allowance	1 ea	\$ 25,000.00	\$ 25,000.00
10-550 Postal Specialties	1 ea	\$ 2,000.00	\$ 2,000.00
10-560 Closet and Storage Shelving	1 ea	\$ 3,500.00	\$ 3,500.00
10-750 Flagpoles	3 ea	\$ 3,000.00	\$ 9,000.00
			\$ 88,800.00
11-000 - Appliances			
	Quantity	Unit Cost	Total Cost
11-300 Laundry Equipment	1 ea	\$ 20,000.00	\$ 20,000.00
11-310 Appliances	1 ea	\$ 25,000.00	\$ 25,000.00
			\$ 45,000.00



Quote: 1334 / Date: 12/7/2023 Project Number: PC-22013

12-000 - Furnishings

3			
	Quantity	Unit Cost	Total Cost
12-210 Window Treatments Allowance	1 ea	\$ 25,000.00	\$ 25,000.00
12-300 Casework/ Cabinets	5 ea	\$ 4,000.00	\$ 20,000.00
12-360 Countertops	5 ea	\$ 3,000.00	\$ 15,000.00
			\$ 60,000.00
14-000 - Elevators	O. combite	Linit Cont	Total Cont
44 240 Flourators and Faceletors	Quantity 4 ea	Unit Cost	Total Cost
14-240 Elevators and Escalators		\$ 38,000.00	\$ 152,000.00
14-240 Elevators and Escalators - Inspection Allowance	2 ea	\$ 15,000.00	\$ 30,000.00
			\$ 182,000.00
21-000 - Fire Suppression			
	Quantity	Unit Cost	Total Cost
21-200 Fire Protection	72,300 ea	\$ 6.00	\$ 433,800.00
			\$ 433,800.00
22-000 - Plumbing			
G	Quantity	Unit Cost	Total Cost
22-200 Plumbing	72,300 ea	\$ 13.50	\$ 976,050.00
			\$ 976,050.00
23-000 - HVAC			
20 000 117/10	Quantity	Unit Cost	Total Cost
23-200 HVAC	72,300 ea	\$ 25.00	\$ 1,807,500.00
20 200 110/10		Ψ 20.00 	\$ 1,807,500.00
26-000 - Electrical			
	Quantity	Unit Cost	Total Cost
26-200 Electrical	72,300 ea	\$ 28.00	\$ 2,024,400.00
26-200 Electrical - Generator Allowance	1 ea	\$ 150,000.00	\$ 150,000.00
			\$ 2,174,400.00
27-000 - Communications			
27 000 Communications	Quantity	Unit Cost	Total Cost
27-200 Communications	72,300 ea	\$ 4.00	\$ 289,200.00
21-200 COMMUNICATIONS	12,000 60	φ 4.00	Ψ 203,200.00





	Quantity	Unit Cost	Total Cost
	Quantity	Offic Cost	\$ 289,200.00
			Ψ 203,200.00
28-000 - Security			
20 000 Goodin,	Quantity	Unit Cost	Total Cost
28-200 Access Control	72,300 ea	\$ 2.00	\$ 144,600.00
28-400 Video Surveillance	72,300 ea	\$ 2.50	\$ 180,750.00
			\$ 325,350.00
31-000 - Earthwork & Utilities			
	Quantity	Unit Cost	Total Cost
31-200 Earthwork	8.1 ea	\$ 200,000.00	\$ 1,620,000.00
31-200 Earthwork - Bad Soils & Wetland Allowance	1 ea	\$ 500,000.00	\$ 500,000.00
			\$ 2,120,000.00
32-000 - Exterior Improvements			
·	Quantity	Unit Cost	Total Cost
32-200 Asphalt Paving	95,000 ea	\$ 5.50	\$ 522,500.00
32-230 Concrete Pavement(Drives and Walks) - Std Duty	42,300 ea	\$ 8.50	\$ 359,550.00
32-230 Concrete Pavement(Drives and Walks) - Heavy Duty	30,100 ea	\$ 12.50	\$ 376,250.00
32-300 Fences and Gates	1,500 ea	\$ 50.00	\$ 75,000.00
32-300 Fences and Gates - Vehicle Gates w/Operators	2 ea	\$ 20,000.00	\$ 40,000.00
32-800 Irrigation	1 ea	\$ 80,000.00	\$ 80,000.00
32-930 Landscaping	1 ea	\$ 190,000.00	\$ 190,000.00
			\$ 1,643,300.00
33-000 - Utilites			
	Quantity	Unit Cost	Total Cost
33-200 Site Utilities	8.1 ea	\$ 175,000.00	\$ 1,417,500.00
			\$ 1,417,500.00
90-000 - Contingency & General Conditions			
	Quantity	Unit Cost	Total Cost
90-125 Design Contingency	0.1 ea	\$ 23,967,015.00	\$ 2,396,701.50
90-125 Construction Contingency	0.1 ea	\$ 26,363,716.50	\$ 2,636,371.65
90-700 - General Conditions	0.06 ea	\$ 29,000,088.15	\$ 1,740,005.29



\$ 32,584,499.05

Quote: 1334 / Date: 12/7/2023 Project Number: PC-22013

		Quantity	Unit Cost	Total Cost
				\$ 6,773,078.44
Notes				
Summary				
Subtotal	\$ 30,740,093.44			
Fee (6%)	\$ 1,844,405.61			
		Accepted By		Date

SECTION E



SPACE NEEDS ASSESSMENT PUBLIC SAFETY BUILDING FIRE STATION #1 FIRE STATION #2 & #3

Donortmont or Space Type		Current Staff	Future Stoff	Dog!d Car Et	
Department or Space Type		Current Stan	ruture Stair	keq a sq. rt.	
4 Dublic Assess				6.047	
1. Public Areas		0	0	-,	
2. Staff Common Areas		0	0	.,	
3. Police Administration- Including Fire		9	10	-,	
4. Records		5	6	_,	
5. Communications		15	17	2,203	
6. Detective Bureau (Plus Task Force members- 16)		19	23	5,981	
7. Uniform Operations - Including Cadets		63	75	4,954	
8. Holding		0	0	6,330	
9. Property		0	0	3,610	
10. Training		1	1	193	
12. Building Support Areas		0	0	3,540	
13. Secure Parking		0	0	0	
Total		112	132		
Subtotal				46,753	
15% Gross-Up Factor (Common circulation, structure, s	hafts, etc.)				
(Use additional 5% Gross-Up Factor for Renovation)	,			7013	
Total Main Building Area					
11. Fleet Maintenance Garage	I.	1	2	5,563	
15% Gross-Up Factor (Common circulation, structure, shafts, etc.)					
(Use additional 5% Gross-Up Factor for Renovation)					
Total Maintenance Building				834 6,398	

12/26/2023

	Description		S	taff	Space Needs			Req'd Net	
Space			Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
1. Public Areas									
Public Vestibule &	Vestibule				1	100		100	Locked & Buzz in after hours
Lobby SHARED	Floor Mat								
	BabyDrop-off	х			1	20		20	
	Intercom / Buzzer	х							
	After Hrs. 911 Phone	x							
	Lobby				1	800		800	*Lobby open for 24/7
	2nd floor lobby				1	200		200	
	Waiting Area	х						0	
	Report Writing	х							
	Counter/ Kiosk				1	10		10	
	Chairs	5			5	5		25	
	Display area/ bulletins	х							
								0	
	Brochure Rack	х						0	
	Drinking Fountain	х						0	
	Overhead Monitors	х						0	
		Subtotal:						1,155	
Front Desk SHARED	PD Dispatch Public Counter:							0	*Public Lobby
	Linear ft. Public								
	Counter (3)				1	12		12	*Records
	ADA Counter Linear ft.								
	(3)				1	12		12	
	PD Records Public								
	Counter: Separate								
	Linear ft. Public								Two Windows for Records Counter; Separate from Police Window; like Livonia
	Counter (3)				2	40			Lobby
	FD Public Counter:							0	
	Linear ft. Public								Might be combined with PD Front Desk; depends on
	Counter (3)				1	12			layout
								0	
		Subtotal:						116	

Public Report Writing Room(s)	Report Writing Room (public side)						100	Public Side Room only; large enough to watch video
	,			1	100			arraignments
	Locate Room(s) on						100	
	secure side			1	100			*Front Desk
	Built-in Table and						0	
	Chairs							
	Live Scan in One			1	25		25	
		Subtotal:					225	
Communicating	Open Stairwell			1	400		400	CONNECT PUBLIC LOBBY ON
Stair- PUBLIC								BOTH FLOORS
		Subtotal:					400	200sf /floor
Community	Training Room			1	1,800	06.02a	1,800	*Lobby
Room/Training/ EOC	Movable room divider	no						*Public Toilets
100 if shared with	Coffee Bar	х						*Table/Chair Storage
Police and Fire;							0	*Mat Storage
75 if used by Public	Audio/Visual Closet	х					0	*Shared with public
and PD only	Seating:							
	w/tables	130					0	
	w/o tables						0	
	Equipment:							Existing Training Room @ PD ~ 52'x34'
	Overhead Projectors	х					0	
	Projector Screens	х					0	
	TV Monitors	х					0	
	Voice/Data Outlets:							
	Perimeter Walls						0	
	Floor Mounted						0	
		Subtotal:					1,800	
Alternate PSAP in	Pre-function Area			1	200		200	Outside training room
Storm Shelter Area								
							0	
		Subtotal:					200	
Alternate PSAP in								*Training Room /
Storm Shelter Area	EOC Kitchenette			1	200		200	Community Room
							0	
		Subtotal:					200	
Alternate PSAP in								*Training Room /
Storm Shelter Area	EOC PSAP Workstation			1	200		200	Community Room
 	1		<u> </u>			ĺ		<u></u>
							0	
		Subtotal:					200	
	1	Juniotal.					200	

	Description		Staff			Space N	leeds	Req'd Net	
Space			Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
	EOC Toilet				1	77		77	
								0	
		Subtotal:						77	
Breakout Rooms/		6-8							*Training / Community
Conference Rooms	Conference Room	0-0			2	150	5.06	300	Room
								0	
								0	
		Subtotal:						300	
Public Toilet(s)	Public Unisex Toilet				4	77		308	
								0	
		Subtotal:						308	
Training Supplies	Storage Room							0	
Storage	Training Supplies							0	
		Subtotal:						0	
EMS Storage	Storage Room				1	200		200	
	Tables and Chairs							0	
								0	
		Subtotal:						200	
Equipment Storage	Storage Room					200		200	*Training Room /
	C: **				1	200			Community Room
	Stuff							0	
		6 1						0	
CEDT Charage		Subtotal:						200	*Training Room /
CERT Storage	EMS Storage Room				1	100		100	Community Room
	LIVIS Storage Room				1	100		0	
								0	
		Subtotal:						100	
Wellness Check	CERT Storage	Jantotal.			2	100		200	
Room	oz otorage					100		0	
			1					0	
		Subtotal:				_		200	
Net Area								5,681	
20% Internal Circulat	tion Factor							1136	
Subtotal: Public Area			0	0				6,817	

	Description		Staff			Space N	eeds	Req'd Net	
Space			Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
02. Staff Commons	•			•					•
Staff Vestibule &	Vestibule				1	80		80	
Lobby	Floor Mat	Х						0	
	Prox. Access Control							0	
	Mud Room				1	50		50	
	Staff Lobby				1	100		100	
	Staff Elevator	Х						0	See Staff Support Areas
	Open Stair	Х						0	see below
	Display Area	Х						0	On Wall
	Mailbox							0	
	Drinking Fountain							0	
		Subtotal:						230	
Communicating	Stairwell				1	400		400	OPEN STAIR TO CONNECT
Stair- Police									BOTH FLOORS
		Subtotal:						400	200sf /floor
Lunch Room / Hub	Lunch/Hub				1	500	7.01b	500	Hub-Zone Configuration with counter top seating
	Kitchenette:							0	
	Refrigerator							0	
	Counter w/ sink							0	
	TV/Monitor							0	
	Vending Machines							0	
	Oven/Stove							0	
	Tables	4						0	
	Chairs	16-20						0	
	TV							0	
	Microwave							0	
		Subtotal:						500	

	Description		S	taff		Space N	eeds	Req'd Net	Comments / *Adjacencies
Space			Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	
Staff Toilets	Unisex- Two per floor				7	77		539	
								0	
		Subtotal:						539	
Wellness Rooms/	Quiet Room				2	100		200	
Decompression	Chair				_			0	
·	Sofa							0	
	Fridge								
	Counter w/ sink								
								0	
		Subtotal:						200	
Exercise Room	Exercise Room				1	1,200	7.09a or b	1,200	Exposed or 12' Ceiling
SHARED									Possible open to City
	Universal Gym							0	Employees???
	Secure Storage							0	
	Athletic Flooring							0	
	Exercise Equipment							0	
	Exercise machines							0	
	Treadmills	6						0	
	Free weights							0	
		Subtotal:						1,200	
Open Locker Area	Locker Room							0	*Shower Room
MSP 5-6 10 CADETS	12x24x72 Lockers	5			5	5		25	*Exercise Room
VISITING /	24x24x72 Lockers	20			20	10		200	Includes Cadet Lockers
HOTELING	36x24x72 Lockers	3			0	15		0	
	Changing/Shower Rm	2			2	77		154	
	Separate Gear Bags							0	
		Subtotal:						379	

	Space Description		S	taff		Space N	eeds	Req'd Net	
Space			Current	Planned	Qty	Size	Reference pg #		Comments / *Adjacencies
MEN'S LOCKER	Mens Lockers								
ROOM;	36x24x72 Lockers	90			90	15		1,350	*Exercise Room
	Toilets w/ ADA	4			4	15		60	
	Urinals	4			4	15		60	
	Lavatories	4			4	10		40	
	Showers	4			4	25		100	
	Battery Chargers	X						0	
	Bunk Room(s)							0	
	Separate Gear Bags							0	
		Subtotal:						1,610	
WOMEN'S LOCKER	36x24x72 Lockers	30			30	15		450	*Exercise Room
ROOM;	Toilets w/ ADA	3			3	15		45	
	Lavatories	3			3	19		57	
	Showers	3			3	25		75	
	Battery Chargers							0	
	Bunk Room(s)							0	
	Separate Gear Bags							0	
		Subtotal:						627	
Net Area								5,685	
30% Internal Circulation Factor								1706	
Subtotal: Staff Comn	non Areas		0	0				7,391	

	Description	Staff			Space N	eeds		Comments / *Adjacencies	
Space			Current	Planned	Qty	Size	Reference pg #	Req'd Net Sq. Ft.	
3. Public Safety Adm		ТО							
BE CENTRAL IN BUIL		T	ī		ı				In-
Public Safety	Private Office		1	1	1	500	3.01		*Executive Secretary
Director/Chief of	Conf. Table Chairs	6-8						0	
Police	Guest Chairs	2						0	
	Sofa								
	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						500	
Assistant Chief of	Private Office		1	1	1	225	3.02	225	*Executive Secretary
Police	Sm. Conf. Table	4						0	*Admin. Conference Room
	Guest Chairs	2						0	
	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						225	
PD COMMANDERS	Private Office		2	2	2	180	3.03	360	*Executive Secretary
	Guest Chairs	2						0	
	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						360	
Administrative	Private Office								*File Room
Assistant Area	Open Office	1	1	2	2	48		96	included in this space
	Guest Chairs								*Chief of Police
	File Cabinet Area 4 x 3 files	high lateral			4	6		24	
	Four-shelf bookcase							0	*Admin. Conference Room
	Two-drawer file							0	*Waiting Area/Entry
	-	Subtotal:						120	

	Description		St	taff		Space N	eeds		Comments / *Adjacencies
Space			Current	Planned	Qty	Size	Reference pg #	Req'd Net Sq. Ft.	
BUDGET ANALYST	Private Office	-	1	1	1	180	3.03	180	located in Admin
	Guest Chairs							0	
	Four-Shelf bookcase							0	
	Two-drawer file							0	
	Desk w/ credenza							0	
		Subtotal:						180	
Fire Chief	Private Office		1	1	1	225	3.02	225	*Executive Secretary
	Sm. Conf. Table							0	*Admin. Conference Room
	Conf. Table Chairs							0	
	Guest Chairs							0	
	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						225	
Assistant Fire Chief	Private Office		1	1	1	180	3.03	180	*Executive Secretary
	Guest Chairs	2						0	
	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						180	
Fire Marshal	Private Office		1	1	1	180	3.03	180	
	Desk	1							*Clerical
	Plan Review Table	1						0	*Conference Room
	Guest chairs	2						0	
	Four-shelf bookcase							0	
	Two-drawer file cabinet							0	
								0	
		Subtotal:						180	

	Description		Staff			Space N	eeds		Comments / *Adjacencies
Space			Current	Planned	Qty	Size	Reference pg #	Req'd Net Sq. Ft.	
Emergency	Private Office		1	1	1	180	3.03	180	*Executive Secretary
Management	Guest Chairs	2						0	
Coordinator	Four-Shelf Bookcase							0	
	Two-Drawer File Cabinet							0	
		Subtotal:						180	
File Room (Police	File Room				1	150		150	Administrative Ass't Area
and Fire Together)	File Cabinets							0	
	Lateral							0	
	Vertical							0	
	Worktop							0	
		Subtotal:						150	

1 1	Size 100	Reference pg #	0 0 0 100 504	In Admin Staff area
		5.02a	0 0 0 0 100 504	In Admin Staff area
1	504	5.02a	0 0 0 100 504	
1	504	5.02a	0 0 100 504	
1	504	5.02a	0 100 504	
1	504	5.02a	100 504	
1	504	5.02a	100 504	
1	504	5.02a	504	
1	504	5.02a		*Waiting Area/Entry
			Λ	, , ,
			U	*Chief of Police
				*Executive Secretary
			0	*Unisex Toilet
			504	
1	50		50	
			0	
			0	
			50	
1	35		35	
			35	
1	67		67	for Give aways
			67	
1	56		56	
1	56		56	
			112	
		1		
	1	1 56		1 56 56 112 2,988 896

				taff		Space N	eeds	Req'd Net	t
Space	Description	on	Current	Planned	Qty	Size	Reference pg #		Comments / *Adjacencies
4. Records									
ADMIN. LT.	Private Office				1	180		180	*Records Clerk
	Desk w/ credenza							0	
	Guest Chairs							0	
	File Cabinets							0	
	Equipment:							0	
	Computer							0	
		Subtotal:						180	
Records Counter	Public Counter							0	*Public Lobby
	Linear feet	five ft.			0	0		0	*Records Clerks
	Position	2						0	TWO WINDOWS; ONE ADA
	Bullet Resistant							0	SEE PUBLIC AREAS
	Public							0	
	Equipment:								
	Computers							0	
	Shared							0	
	Cash safe							0	
		Subtotal:						0	
Records Clerks	workstations		5	6	6	64		384	*Public Lobby
	File							0	
	Equipment:								
	Computer							0	
	Printer							0	
		Subtotal:						384	

			S	taff		Space N	eeds	Req'd Net		
Space	Description	1	Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies	
Fingerprinting Room	Area				1	80		80		
								0		
	3 chairs and a									
	machine								Close to records	
	For ink Prints							0		
	On secure side of							0		
	Public Lobby									
		Subtotal:						80		
System									PLEASE CONFIRM OFFICE LOCATION;	
Administrator (IT	2								Comm or Records	
Officer)	Private Office				1	130	03.05	130		
	Guest Chairs							0		
	Two-drawer file									
	cabinet							0		
	Desk (lockable) w/									
	credenza							0		
	Work counter surface									
	(for repairs)							0		
	Software storage							0		
	Equipment:							0		
	Computer							0		
		Subtotal:						130	1	
Work Area	Work Room				1	100		100	included in Clerks area	
	Open Space							0		
	Equipment:									
	Multifunction Printer							0		
	Special Equipment							0		
	Shredder							0		
								0		
		Subtotal:						100		
Office Supply Room	Supply Closet				1	100		100	included in clerks area	
	Open Area							0		
		Subtotal:						100		

		S	taff		Space N	eeds	Req'd Net	
Space	Description	Current	Planned	Qty	Size	Reference pg #		Comments / *Adjacencies
Active Files	Open Area			1	200		200	*Records Clerks
	Space Saver Storage							two- high density units- 6' wide;
	System						0	currently about 12 4-drawers
	File Cabinets						0	included in clerks area
	Fingerprint Cards						0	
	Gun Registration						0	
	Accident Reports						0	
	Warrants & add							
	paperwork						0	
	Misc. Files						0	
	Subtotal:						200	
Archives	Archives Room			1	250		250	high density storage
(Records Vault)	File Cabinets						0	
	Storage System:						0	
	Manual						0	
							0	
	Subtotal:						250	
Net Area							1,424	
30% Internal Circul	ation Factor						427	
Subtotal: Records		5	6				1,851	

				taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
5. Communications	(Dispatch) Primary								
Security Vestibule	Vestibule				1	50		50	
	Interlocking Doors							0	
		Subtotal:						50	
Communications	Private Office	х	1	1	1	225	3.02	225	
Manager	Workstation	х			0	0		0	
	Guest Chairs							0	
	Conference Table	Х							
	File cabinet							0	
	Equipment:							0	
	Computer							0	
		Subtotal:						225	
Toilet Room	Toilet Room with								*Communications Operations (but not
(Unisex)	Urinal				1	77	7.05b	77	direct into room)
								0	
		Subtotal:						77	
Communications	Workstation		14	16	6	100	4.05a	600	
Operations	Console	х						0	Xybex Workstations
	Raised Floor	yes						0	
	Common Reference								Center Lighting over each workstation
	Area								so that each station is individually
		х							controlled
	Manual Kiosk (1 per 4								
	stations)				1	10		10	
	Backup Radio							0	
	Multifunction Printer	х			1	10		10	
	File Cabinets	х							
									Back Lot; TV,Fire Responses, Etc
	Media / Monitor Wall	х							
	Prisoner Monitoring								
	Screens	х							
		Subtotal:						620	

		S	taff		Space N	eeds	Net			
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies	
Communications	Break Room				1	160	7.01d Similar	160	*Communications Operations	
Break Room /	TV Area								Possible Galley Kitchen	
Kitchen	Kitchenette:									
	Refrigerator	Х						0		
	Counter w/ Sink	Х						0		
	Range	Х						0		
	Stove Top	Х						0		
	Microwave	Х						0		
	Dining Table	1						0		
	Dining Chairs	4						0		
	Vending Machine							0		
	Dishwasher							0		
		Subtotal:						160		
Private Locker Area	full length Lockers	20			1	150		150	12"- 18" wide for Coats: Changing in	
									Toilet Rooms	
		Subtotal:						150		
Lactation / Quiet	Room				1	100		100		
Room		Subtotal:						100		
Open Copier Area	Printer	Х			1	100		100		
	Shredder	х						0		
	Office Supplies	Х							supplies in cabinets	
	Double Length File									
	Cabinets	х								
	Mailboxes	20						0		
		Subtotal:						100		
(Server Room)	Server Room				1	150		150	- One central Server Room for entire	
									building- Accessible but not a part of	
	911 Communications								Communications Suite	
	Server							0		
	Computer/Keyboard								They want separate server room 12'x12	
	work stand							0	for dispatch	
		Subtotal:						150		
Net Area	•							1,632		
35% Internal Circulat	5% Internal Circulation Factor							571	l	
			15	17				2,203		
ubtotal: Communications (Dispatch)		15	17				2,203			

				aff		Space N	leeds	Net Req'd	
Space	Description	า	Current	Planned	Qty	Size	Reference Pg #		Comments
6. Detective Bureau					•			-	
Detective Sergeant	Private Office		1	1	1	130		130	
	Guest chairs							0	
	Two-drawer file cabinet							0	
	Desk w/ credenza							0	
	Equipment:								
	Computer							0	
	·	Subtotal:						130	
Detectives	Private Office		8	12	10	130	3.06	1,300	Lockable desk drawer
	File Cabinets							0	
								0	
								0	
								0	
		Subtotal:						1,300	
SGT. Training and	Private Office		1	1	1	130		130	Reports to Adm. Lt.
Standards	Guest Chairs							0	
	Four-Shelf bookcase							0	
	Two-drawer file							0	
	Desk w/ credenza							0	
	Morkstation	Subtotal:				422		130	
School Resource	Workstation	2	2	2	2	130		260	
Officers	Equipment:							_	
	Computer							0	
	Printer							0	
		Subtotal:						260	

	Description		Staff			Space N	eeds	Net Req'd	
Space			Current	Planned	Qty	Size	Reference Pg #		Comments
Detectives Storage									In the detective suite but not
Room for DUTY	Storage Room				1	16		16	in the office.
BAGS	2x2x3deep	12						0	
		Subtotal:						16	
Juvenile Detective	Room	1			0	0		0	included above
INCLUDED ABOVE	Four-drawer file cabir	net						0	
	Equipment:								
	Computer							0	
	Printer							0	
		Subtotal:						0	
Conference Room/	Conference Room				2	250	5.02b	500	
TASK FORCE CASE	Coat Closet						similar	0	
ROOM	Coffee Station							0	
	Storage Closet							0	
	Seating	10-12						0	
	Conference Table							0	
	Credenza							0	
	Flat Screen							0	
	White Board							0	
	Equipment:								
	Projector							0	
	Projection Screen							0	
	TV/DVD							0	
		Subtotal:						500	

			S	taff		Space N	eeds	Net Req'd	
Space	Descriptio	n	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments
Work Area	Work Area				1	80		80	
	Floor Cabinets							0	
	Wall Cabinets							0	
	Coffee Station								
	Equipment:								
	C/S/F machine							0	
		Subtotal:						80	
Huddle Zone	Open area				1	100		100	
								0	
								0	
		Subtotal:						100	
SONIC/DEA(3)/ FBI	Workstation		5	5	5	24		120	
HOTELING	Guest Chairs							0	
	Four-Shelf bookcase							0	
	Two-drawer file							0	
	Desk w/ credenza							0	
		Subtotal:						120	
Secret Service	Private Office		2	2	2	130	03.06	260	
Supervisor Offices	Guest Chairs							0	
	Four-Shelf bookcase							0	
	Two-drawer file							0	
	Desk w/ credenza							0	
		Subtotal:						260	
TASK FORCE	Workstation				16	48	04.04B	768	
WORKSTATIONS	Work table							0	
	Work counter							0	
	Coat Closet							0	
	White Board							0	
		Subtotal:						768	
DIGITAL FORENSIC	Crime Lab Room				1	400		400	Anti-static carpet
LAB- IT	Work counter							0	
	Shelving storage							0	
	-	Subtotal:						400	

			S	taff		Space N	eeds	Net Req'd	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments
Interview Suite (s) A	DDED								
Interview Rooms									Controlled access from public
	Interview Room	1			1	100		100	lobby
	Interview Table	1						0	
	Interview Chairs	3						0	
	A/V Recording	х						0	
	Gun Lockers (located								
	outside)	х						0	
	Sound-proof walls and								
	ceiling	x						0	
		Subtotal:						100	
Soft Interview Room	Interview Room	1			1	120		120	*Waiting area
	Interview Table	х						0	
	Interview Chairs	3						0	
	Seat							0	
	Sofa	х						0	
	Coffee Table							0	
	TV							0	
	A/V Recording	х						0	
	Gun Lockers (located								
	outside)	х						0	
	Sound proof walls and								
	ceiling	х						0	
		Subtotal:						120	
Waiting Area	Waiting Area	1			1	80		80	
· ·	chairs							0	
	Coffee Table							0	
		Subtotal:						80	
Visitor Toilet									
(Unisex)	Toilet (ADA Accessible)				1	66		66	
	Subtotal:							66	
Net Area								4,430	
35% Internal Circulat	tion Factor-							,	
5576 Internal Circulation Factor-								1551	
ubtotal: Detective Bureau			19	23				5,981	

			St	taff		Space N	eeds	Req'd Net	Comments / *Adjacencies
Space	Description	1	Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	
7. UNIFORM OPERA	TIONS							•	
Patrol Lieutenants A	Private Office		2	4	4	180	3.07a	720	
& B Shifts	File Cabinet						similar	0	
	Conference Area							0	
	Tables	1							
	Chairs	2							
	Closed Shelving								
	Equipment:								
	Computer							0	
	Printer								
	Stand Up Desks							0	
		Subtotal:						720	
Patrol Commander	Private Office		1	1	1	225	3.02	225	
	Sm. Conf. Table							0	
	Conf. Table Chairs							0	
	Guest Chairs							0	
	Four-Shelf Bookcase							0	
	Two-Drawer File								
	Cabinet							0	
	Desk w/ credenza							0	
		Subtotal:						225	
Patrol Sergeants A	Road Patrol Area		8	8	1	500			8 workstations
& B	Workstations	8							shared desks
	Work Area							0	
	Shared Conference								
	Table	Х							
	Bookcase/shelves	Х							
	File Cabinet	х						0	
		Subtotal:						500	
Patrol Officers	Road Patrol		40	50					Each to have document storage
	Noud Full Of	Subtotal:	70	30				0	
Police Cadets	Police Cadets	Subtotal.	12	12				0	
Police Cauets	r once cauets	Subtotal:	12	12				0	
Duty Gear Bag		Subtotal.						U	
Storage	Duty Gear Bag				8	6		10	for patrol sgts - in their office
Storage	Duty dear bag	Subtotal:			0	U		48	ioi patroragia - in their office
Juvenile Room	Room	Subtotal:			1	100			Not Lockable
Juverille Nooili	ROOM	1			1	100	I		Sight and sound seperated
								U	next to report writing
					-				HEAL TO LEDOLT MITHING
		Cubtatal						100	
		Subtotal:						100	

			Staff			Space N	leeds	Req'd Net	
Space	Description		Current Plan		Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
Work Area / Office									*Shift Lieutenant / Sergeant
Supplies	Work Room				1	80		80	Offices
	Office Supplies							0	
	Secure Storage Closet							0	
	Floor Cabinets							0	
	Wall Cabinets							0	
	Cofee Bar								
								0	
		Subtotal:						80	
Mailboxes									In each department area-not
	Mailboxes 8.5x11x 3"				1	80		80	in any rooms
	Boxes							0	
	Work Counter							0	
	Location:								
	Central Open area							0	
	Secure Office area							0	
		Subtotal:						80	
Briefing Room	Briefing Room	10-15			1	500	6.04a similar	500	
	Counter surface w/								
	cabinets							0	
	Tables	Х						0	
	Chairs	Х						0	
	Desk/Lectern							0	
	Voice/Data/Power:								
	Perimeter Walls							0	
	Floor Mounted							0	
	Equipment:								
	A/V Cabinet							0	
	Full Electronics							0	
	Monitor							0	
	Flat screen for CAD								
	session							0	
	White Board							0	
	Smart Board							0	
		Subtotal:						500	

			S	taff		Space N	leeds	Req'd Net	
Space	Description	1	Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
Equipment Storage	Room				1	80		80	
	Shelving							0	
	Charging							0	
		Subtotal:						80	
SWAT READY ROOM	Room				1	274		274	near swat vehicle
=	Open Lockers behind								
	swipe door	12							
	Huddle Table								
	Changing Rooms	4						0	
								0	
								0	
		Subtotal:						274	
Patrol Storage/ Riot					1	400		400	shelving: PV, AED, Flares,
Gear								0	crowd control
		Subtotal:						400	
Report Writing	Report writing room				6	35		210	*Staff Lobby
Room	Carrels							0	*Briefing Room
	Computer Teminials							0	*Shift Lieutenant / Sgt Offices
	Docking Stations							0	
	Shared Printer				1	24		24	
	Desk							0	
	Work Surface				1	12		12	For evidence layout
	Bookshelves							0	
		Subtotal:						246	
Duty Gear Bags									Need space for duty gear and
	Storage Room				9	12		108	riot gear
	shelving	73					_	0	All sworn officers need cubbie
								0	
								0	
								0	
		Subtotal:						108	

			Si	taff		Space N	leeds	Reg'd Net	
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
Armory SMALL	Armory				1	150		150	Rifle rack
	Extra weapons (guns and rifles)							0	cabinet for hand guns
	Professional gun discharge box							0	tasers - extra
		Subtotal:						150	(
Uniform Storage/	Storage				1	100		100	
Quartermaster	Open Shleving							0	
	Returned Uniforms							0	
	Returned Equipment							0	
		Subtotal:						100	
Kennel (two dogs	Kennel				1	100		100	One dog in dog run at time
now; four in future)	Dog Cages	2						0	
	training equipment/ suite								
	Air-conditioned space							0	
		Subtotal:						100	
K-9 Officer	Kennel				1	100			Outdoor
Storage/Dog Run								0	
	Air-conditioned space							0	
		Subtotal:						100	
Net Area					-		3,811		
30% Internal Circulation Factor							1143		
ubtotal: Road Patrol			63	75				4,954	

			S	taff		Space N	leeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
8. Holding & Sally	port								
Sallyport	Sallyport				1	2,000		2,000	prisoner van or abmulance
	Enclosed Space							0	
	Vehicles	4						0	
		Subtotal:						2,000	
Prisoner Intake	Vestibule	1			1	80		80	* Sally Port
Vestibule									
	Gun Lockers - Outside							0	* Prisoner processing area
	Gun Lockers - Inside							0	
	Interlocking Doors							0	
		Subtotal:						80	
Interrogation	Interrogation Room	1			1	80		80	
Rooms/Video	Secure Table							0	
Arrangement	Secure Stools							0	
		Subtotal:						80	

			S	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
Prisoner Processing	Room				1	400		400	* Command Desk
Area	Pre-Processing holding								
	tank							0	
	Toilet & Shower w/								
	privacy	х						0	
	Secure Counter	х						0	
	Secure Cuff Bench	4						0	
	Hose Bib	Х						0	
	Floor Drain	Х						0	
	Lockers 18x18	50							
	Equipment:								
	Log Book terminal								
	(secure)	х						0	
	Live Scan palm/prints	Х							
								0	
	Printer	3						0	
	Distress button	Х						0	
	CLEMIS Camera (mug								
	shots)							0	
		Subtotal:						400	
Strip Search/	Decon Shower				1	80		80	*off processing
Shower								0	*next to Sally Port
		Subtotal:						80	
nternal Vestibule	Vestibule				1	80		80	
Man Trap	Part of internal								
	circulation							0	
		Subtotal:						80	
Staff Toilet	Unisex Room				1	80		80	
		Subtotal:						80	
Holding Cells	Cells (1 ADA)				1	100		100	
	Single Occupancy	х			9	80		720	
	8"H X 27"W Concrete								
	Curb							0	
	Lavatory/Toilet Fixture	х						0	
	36" -40"H Sloping								
	privacy wall	х						0	
	Floor Drain	Х						0	
		Subtotal:						820	

			S	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference pg #	Sq. Ft.	Comments / *Adjacencies
Isolation Cell	Cell (ADA)	х			2	100		200	Note:
	Single Occupancy	Х						0	For intoxicated / violent prisoners
	Padded Walls	Х			2	80		160	
	8"H X 27"W Concrete								
	Curb	х						0	
	Lavatory/Toilet Fixture	х						0	
	36" -40"H Sloping								
	Privacy Wall	х						0	
	Floor Drain	Х						0	
		Subtotal:						360	
Kitchen / Meal	Kitchen				1	100		100	fridge
Preparation	Pantry							0	chest freezer
	Kitchen:								
	Refrigerator/Freezer							0	
	Counter w/ sink							0	
	Microwave							0	
	Floor & Wall Cabinet							0	
		Subtotal:						100	
Janitor's Closet	Closet				1	60		60	
	Mop Sink							0	
	Floor Drain							0	
		Subtotal:						60	
Supplies Storage	Storage Room				1	80		80	
	Open shelving							0	
		Subtotal:						80	
Net Area								4,220	
50% Internal Circul	ation Factor	_						2110	
Subtotal: Holding 8	& SallyPort		0	0				6,330	

			S	taff		Space N	eeds	Req'd Net		
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
9. Property (under i	nvestigations)									
Evidence	Prep Area				1	200		200		
Preparation Area	Work Counter								Needs counter space	
	(bagging & tagging)							0		
	Sink w/ eyewash							0		
	Floor & Wall Cabinet							0		
	Equipment:									
	Computer							0		
	Printer							0		
	Video Monitoring							0		
		Subtotal:						200		
Evidence Two-way	Locker Space				3	36		108	* Evidence Prep Area	
Lockers	3' Wide modular									
	locker units							0	* Property Officer	
	Compartment number									
	& sizes							0		
	Long gun/riffle							0		
	Large Bulk item							0		
	Medium size							0		
	Small size							0		
	Refrigerated unit	No						0		
	Two-way lockers							0		
	Drop Box (for									
	envelopes etc.)							0		
	Keyless access control									
	,							0		
		Subtotal:						108		
Property Officer	Private Office				1	120		120	*Evidence Storage Room	
•	Workstation							0	-	
	File Cabinets							0	*Evidence Processing	
	Equipment:								*Evidence Lockers	
	Computer							0		
	Printer							0		
		Subtotal:						120		

			S	taff		Space N	leeds	Req'd Net		
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
Supplies Storage	Storage Room				1	80		80	*Evidence Processing	
	Lockable Cabinets							0		
	Open Shelving							0	*Property Officer	
	Evidence Supplies							0		
		Subtotal:						80		
Drying Room									*Property officer used in	
, ,	Drying Room				1	100		100	evidence storage	
	Drying Enclosure							0		
	Hose bib							0		
	Floor Drain (filtered									
	separately)							0		
	Vented Separately							0		
	,	Subtotal:						100		
Evidence Storage	Storage Room				1	900		900		
Room	High Density Storage									
	System	х						0		
	Weapon Storage				1	200		200		
	Wall Space							0		
	Cabinets							0		
	Drug Storage (room)	х			1	100		100		
	Cash Safe	х						0		
	Humidity-Control									
	Refrigerator	x						0		
	Work Area (desk &									
	Chair)							0		
	Open Isle Shelving							0		
	Return Lockers (for									
	checking in/out									
	evidence used in trial							0		
	Vented Separately	х						0		
		Subtotal:						1,200		
orensic Garage	Storage Room				1	700		700		
		Subtotal:						700		
Bulk Evidence	Storage Room				1	500		500		
Storage		Subtotal:						500		
Evidence Release										
	Evidence Release							0	Possible side door to releas	
		Subtotal:						0		
Net Area	•							3,008		
20% Internal Circula	ation Factor							602		
Subtotal: Property			0	0				3,610		

			St	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
10. Training									
Training Officer	Private Office		1	1	1	130	3.07a	130	*Training Room
	Workstations							0	
	Guest Chairs							0	*Police Administration
	File Cabinets							0	
	Equipment:								
	Computer							0	
		Subtotal:						130	
Training Files	File Room				0	0		0	Files in Administration Suite
	Cash Safe							0	
		Subtotal:						0	
Individual Training	Area for Carrels							0	*Training Officers
Study Carrels	Small Study Carrels for								Could be near Dispatch or near Report
	self-study	4			4	6		24	Writing Area
		Subtotal:						24	
Net Area								154	
25% Internal Circula	tion Factor							39	
Subtotal: Training			1	1				193	

			S	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
11. Fleet Maintenance	Garage								
Fleet Maintenance /	Garage							0	*Evidence Storage Room
Garage	Bays	5			6	600		3,600	*Evidence Processing Area
	Vehicle lift system	х						0	
	Air-conditioned Space							0	
	Electrical for welders	х							
	and equipment							0	
	Air compressed air plumbed throughout	х							
	shop							0	
	Tire air / balance	х							
	Hazmat cabinet -	х							
	lockable								
	Plenty of LED lights	х						0	
	Oil Drum	х							
	Workbench for each bay	х							
	Tire Storage								
	Drums of cleaning								
	juice								
	Clean air filter/dirty air evacuation system								
		Subtotal:						0 3,600	
Toilet	Area				1	56		56	
		Subtotal:						56	

			S	taff		Space N	eeds	Net	
Space	Description	า	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
Eye wash/shower	Area				1	10		10	
		Subtotal:						10	
Maintenance Office	Office		1	2	1	300		300	
		Subtotal:						300	
Parts Room									
					1	500		500	*Off of security Staff Parking
								0	
								0	
								0	
								0	
		Subtotal:						500	
Vehicle Storage	_		-		-				
SWAT Van									
Patrol Bikes EXISTING-	Area	10			10	15		150	Hang on Wall
IN GARAGE AREA		Subtotal:						150	
Motorcycles	Area	2							
					2	10		20	*Off of security Staff Parking
		Subtotal:						20	
Bulk Evidence Storage -	Storage Room								
Fence in Sally Port								0	*Off of security Staff Parking
	Large-item Property							0	
	Found property							0	
	Bicycles							0	
	Misc. Large items							0	
		Subtotal:						0	
Net Area								4,636	
20% Internal Circulation	Factor							927	
Subtotal: Miscellaneous	Spaces		1	2				5,563	

			S	taff		Space N	eeds	Req'd Net		
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
12. Building Suppor	rt Areas									
Public Elevator	Elevator Space				1	200		200	*Public Lobby	
	Floor stops for public	х						0	*Controlled access	
								0		
		Subtotal:						200		
Elevator Mech.	Room				1	100		100	*Elevator	
Room		Subtotal:						100		
Staff Elevator	Elevator Space	х			1	200		200	*Public Lobby	
	Floor stops for staff							0	*Controlled access	
		Subtotal:						200		
Elevator Mech.	Room				1	100		100	*Elevator	
Room		Subtotal:						100		
Mechanical Room	Room				1	500		500	for main building	
		Subtotal:						500		
Electrical Room	Room				1	300		300	for main building	
		Subtotal:						300		
Building Supply	Room				1	150		150		
Storage	Accessible Ceiling Space							0		
	Climate-Controlled							0		
	Open shelves							0		
		Subtotal:						150		

			S	taff		Space N	eeds	Req'd Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
Event Storage Room	Room				1	100		100	Out of sight
	Accessible Ceiling							0	
	Space								
	Climate-Controlled							0	
	Open shelves							0	
		Subtotal:						100	
IT Closets	Room				2	100		200	Including low-voltage
		Subtotal:						200	1 per floor
Server Room	Room				0	250		0	See Communications
	Workbench for IT								- One central Server Room
	Repairs								for entire building-
	Equipment:								Accessible but not a part of
									Communications Suite
	Electronics							0	
	Radio							0	
	Computer Servers							0	
								0	
		Subtotal:						0	
Custodian's Storage	Storage Room				1	200		200	*Police Staff Lobby
	Misc. Item Storage							0	
	Laundry tub								
	Double-door entryway							0	
		Subtotal:						200	

			St	taff		Space N	eeds	Req'd Net		
Space	Space Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
Janitor's Closet	Closet				2	50		100	*Toilets	
	Mop Sink							0	Note:	
	Floor Drain							0	1 per floor	
	Shelving for Supplies							0		
		Subtotal:						100		
Computer	Area							0		
Maintenance Area	Computer							0		
	Maintenance									
		Subtotal:						0		
Fire Exit Stairs	Stairwell				2	400		800	Note: Min. No. of fire exit	
	Stairs and Basement								stairs required by code	
		Subtotal:						800		
Net Area					•		2,950			
20% Internal Circula	0% Internal Circulation Factor							590		
Subtotal: Building Support Areas			0	0				3,540		

Parking Requirements:		Spaces
Peak demand for secure parking		
Secure Impound parking needs		0
Other outdoor parkin		
Staff Parking		0
Trailer Parking (Inside)		
Trailer Parking (Outside)		
Public (Visitor) Parking		12
	Total Spaces	0

Public Safety Building Fire Station 1 Space Needs Assessment

Fire Station 1 Operations Building Area Calculations	Current Staff	Planned Staff	Area Required
1. Public Spaces	0	0	252
2. Fire Administration	1	1	387
3. Cold Zone Suppression Operations	1	1	675
4. Cold Zone Staff Commons	6	20	4,101
5. Warm Zone	0	0	2,431
6. Hot Zone Apparatus Bay (Four Bays)	0	0	8,084
7. Optional Mezzanine/Basement Area	0	0	0
8. Physical Training Tower	0	0	0
9. Building Support Area	0	0	540
Total	8	22	
Subtotal			16,472
15% Gross-Up Factor (Common circulation, structure, shafts, etc.)			
(Use additional 5% Gross-Up Factor for Renovation)			2,471
Total Station #1 Building Area			18,942

12/26/2023

Public Safety Building Fire Station 1 Space Needs Assessment

Novi PSB
Project No. 3709.00

				taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg#	Sq. Ft.	Comments / *Adjacencies
1. Public Areas									
Public Vestibule &	Lobby				1	100		100	Locked and Buzz in after hours
Lobby								0	
		Subtotal:						100	
Front Counter	Counter				1	10		10	
		Subtotal:						10	
Public Unisex Toilet	Unisex toilet				1	77		77	
								0	
		Subtotal:						77	
Net Area							187		
35% Internal Circulat	% Internal Circulation Factor							65	
Subtotal: Public Areas			0	0				252	

					•				
			St	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg#	Sq. Ft.	Comments / *Adjacencies
2. Fire Administrati	onWITH PUBLIC SAFETY A	DMINISTR	ATON						
Fire Inspector	Private Office		1	1	1	130	03.06	130	
	Desk w/ credenza							0	
	Guest Chairs							0	
	Four-shelf bookcase							0	
	Two-drawer file cabinet								
								0	
		Subtotal:						130	
Work Area	Counter				1	80		80	
	Storage								
	Multifunction printer								
	Coffee Bar							0	
		Subtotal:						80	
Staff Unisex Toilet	Unisex Staff Toilet				1	77		77	
	ADA								
	w/ Urinal								
		Subtotal:						77	
Net Area							_	287	
35% Internal Circula	tion Factor							100	
Subtotal: Fire Admir	Subtotal: Fire Administration			1				387	

			St	taff		Space N	eeds	Net	•	
Space	Space Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
3.Cold Zone Supp	ression Operations									
Captain	Private Office		1	1	1	130		130		
	Sleep Room:				1	100		100		
	Bed							0		
	Locker 2' X 3' X 6'							0		
		Subtotal:						230		
Watch Desk	Office				1	270		270	*App Bay	
	Report writing Carrels									
		4						0	*Day Room	
	File Cabinets							0		
	Chairs	4								
	Radio Equipment							0		
		Subtotal:						270		
Net Area					·		500			
35% Internal Circ	5% Internal Circulation Factor							175		
Subtotal: Cold Zone Suppression Operations			1	1				675		

			S	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
4.Cold Zone Spaces									
Staff Vestibule &	Vestibule				1	80		80	
Lobby	Lobby				1	100		100	
	Mud Room							0	
	Staff Elevator							0	
	Open Stair							0	
	Display Area							0	
	Mailbox							0	
	Drinking Fountain							0	
	Floor Mat							0	
	Prox. Access Control							0	
		Subtotal:						180	
Station 1									
firefighters			4	18					
Firefighers' Sleep									
Rooms	Private Room 6/shift;								to accommodate up to 6/shift: Captain
	shared by two shifts				6	110		660	has own sleeproom
	POC		2	2					on duty; included in count above
	Bed							0	
		Subtotal:						660	
Wellness Room	Private Room				1	120		120	
	Future Sleep Rms								
	Training area							0	
								0	
								0	
								0	
		Subtotal:						120	
Fire Simulator									
Room	Dedicated Room				1	200		200	
	Driving Simulator								
	-								
		Subtotal:						200	
Locker Alcove	Locker Alcove				1	240		240	
(additional lockers)	Locker 4'x2'x6'	10				240		0	
	LOCALITY AZ AO	10						0	
								U	
		Subtotal:						240	
	ı	Junioldi.						240	

			S	taff		Space N	eeds	Net		
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies	
Shower Rooms	Shower Room				3	77		231	Cold Zone	
	Shower Room (ADA)							0		
	All to include:									
	Bench	x						0	*Locker Alcove	
	Toilet	x						0		
	Sink	х						0		
	Shower	х						0		
Day Room	Day Room	Subtotal:						231	*Kitchen	
Day noon	Chairs	8			1	250			*Dining Room	
	Telephone							0		
	TV							0		
		Subtotal:						250		
Exercise Room	Exercise Room				1	500	07.09C	500		
Kitah a a	Kitchen	Subtotal:			1	450		500		
Kitchen	Food Pantry	3			1	430			*Day Room *Dining Room	
		3								
	Cabinets								* Access to Patio	
	Countertop w/ sink							0	Counter w/ stools in kitchen	
	Commercial-grade Microwave	1						0		
	Commercial Range	1							6 burners	
	Commercial Hood w/								o burners	
	fire suppression	1						0		
	Dishwasher	1						0		
	Commercial Freezer	1						0		
	Commercial Freezer	1								
	Commercial									
	Refrigerator									
	Double Door	1								
		Subtotal:						450		
Dining Room	Dining Room				1	250		250	*Kitchen	
	Table - size of table							0		
	Chairs	10						0		
								0		
		Subtotal:						250		
Custodial Storage	Area				1	80		80		
	Metal shelves							0		
		Subtotal:						80		
Laundry Room	Room				1	120			Wash/Dry large enough for bedding	
· ·	1	1	l		1		I		, , , , , , , , , , , , , , , , , , , ,	

	Space Description		Staff			Space	Needs	Net	
Space			Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
	Residential Washer								
	Residential Dryer								
	Wash tub								
	Base Cabinets								
	Wall Cabinets							0	
		Subtotal:						120	
Net Area								3,281	
25% Internal Circul	% Internal Circulation Factor							820	· ·
Subtotal: Cold Zone	btotal: Cold Zone Staff			20				4,101	

			S	taff		Space N	leeds	Net	Comments / *Adjacencies	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.		
5. Warm Zone								•		
Personal Decon	Warm Zone Room				1	500		500		
Room	18" stackable lockers	25			-	300		0		
	Shower Rooms	23						- 0		
	Stackable Washer/									
	Dryer (contaminated									
	clothes)	1								
	Toilet Room	2								
	Dry Decon Cabinet	2 person								
	Dry Decon Cabinet	z person								
		Subtotal:						500		
Turn Out Gear	Gear Room	Jubiotai.			1	700			*Apparatus Bay	
Room	Mesh Open Racks				1	700		700	Аррагасиз вау	
	(3'x2')	40							*Decon Room	
	(3 12)	40							2 sets of gear per Fire Fighter	
									2 sets of gear per fire righter	
								0		
		Subtotal:						700		
_aundry and	Positive pressure	Subtotal.						700	*Apparatus Bay	
Equipment Decon	Room				1	400		400		
-quipinent Decon	KOOIII				1	400		400		
	Stackable Residential									
	Washer & Dryer (Rags)	x						0		
	Laundry Tub							0		
		х						U		
	Shelving (Soap and							•		
	Cleaning Supplies) Mop Sink	X						0		
	Wash/Extract (60lb)	X X						0		
	3 Tub Sink (SS)							U		
	Eye Wash	х						0		
		X						U		
	Gear Dryer	X								
	Mask/Tank washer	х								
		Subtotal:						400		
EMS	Area	Subtotal:			1	150				
Eivis Supplies/Storage	shelving				1	150		150	*Apparatus Bay	
Secure Storage	Sink for future							0		
scoure storage	Refrigerator small							0		
	Counter space							U		
	counter space	Subtotal:						150		
Hot/Warm Zone	Area	Jubiolal.			1	120			*Apparatus Bay	
Fransition vesitbule	Storage Space w/				1	120		120	Apparatus bay	
vesitbule	Locking Fence							0		
	Sink for future							0		
	Sink for future							0		
	1	Subtotal:						120	<u> </u>	
Net Area	1	SubtOtal:						1,870		
80% Internal Circulat	tion Factor							561		
ouzo internat ciffillat	נוטוו דמכנטו							201		

			S	taff		Space N	eeds			
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Net Sq. Ft.	Comments / *Adjacencies	
6. Apparatus Bay (Hot Zone)									
Apparatus Bay	Apparatus Bay	18x65			4	1,440	12.06 sim	5,760	4 Pull Through Bays @ Station 1	
(18'x65') Single	14'x14' Bi-fold							0	4 fold in front and sectional in back	
deep (18'x80')	Apparatus	Length								
double deep	Engine 5	30' 8"			1			0		
	New Engine	34'								
	Tower 1									
	48'6"L x 12'11"W x 11'6"H	48' 6"			1			0		
	Squad 1	26'			1			0		
	519 Command	18'								
	MEP									
	Space Ventilation							0		
	Vehicle Exhaust									
	Connection							0		
	2" Fill & Washing									
	Connection							0		
	Compressed Air Lines									
	over each bay							0		
	Hose Bibs & Reels							0		
	Oil Interceptor							0		
	Trench Drain							0		
	Trenen Brain							0		
	Infrared Linear Ceiling							0		
	Radient Heat Floor							0		
	Radient Heat									
	Approach									
	Арргоасп									
		Subtotal:						5,760		
Jaco Davina and	Area	Subtotal.			1	120				
Hose Drying and	Dehumidification				1	120		120	*Apparatus Bay	
Storage								_		
	Room							0		
	Storage Racks for							_		
	Hoses							0		
	Exhaust Fan				_			0		
	Hose Washer		<u> </u>		1	120		120		
	Floor Drain]						0		
		Subtotal:						240		

	Description		Staff		Space Needs				
Space			Current	Planned	Qty	Size	Reference Pg #	Net Sq. Ft.	Comments / *Adjacencies
Toilet	Unisex Toilet				1	77		77	*Apparatus Bay
								0	
		Subtotal:						77	
SCBA Maintenance	Clean Room				1	160		160	*Apparatus Bay
								0	
								0	
								0	
		Subtotal:						160	
SCBA Cascade	Room				1	200		200	*Apparatus Bay
Room									
	Oxygen Filling Station							0	
	Oxygen Bottles								
	Storage Air Bottles Storage							0	
	Explosion proof							U	
	container							0	
	Container	Subtotal:						200	
Parts/shop	Shop	Subtotal.			1	300		300	
	Station Compressor				т	300		0	Аррагасиз вау
	Fire Cabinet							0	
	ine cabinet							0	
		Subtotal:						300	
Net Area		Jubiotal.						6,737	
20% Internal Circulation Factor								1347	
Subtotal: Apparatus Bay			0	0				8,084	

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		S	Staff		Space Needs			
Space	Description	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
7. Optional Mezzanir	ne Area							
Mezzanine Area							0	*Apparatus Bay
	Subtotal:						0	See picture
Net Areas							0	
Circulation Factor							0	
Subtotal: Optional M	0	0				0		

			S	taff		Space Needs			
Space	Descri	ption	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
8. Physical Training Tower									
Training Tower	Optional							0	Separate Facility
		Subtotal:						0	
Live Burn Tower	Optional							0	Separate Facility
		Subtotal:						0	
Net Areas								0	
5% Internal Circulation Factor								0	
ubtotal: Physical Training Tower			0	0				0	

			S	Staff		Space N	leeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
9. Building Support	Areas								
Mechanical Room	Room				1			250	
		Subtotal:						250	
Electrical/Server	Room				1			200	
Room		Subtotal:						200	
Net Area							450		
20% Internal Circulation Factor								90	
Subtotal: Building Support Areas			0	0				540	

Parking Requirements:	Parking Requirements:						
Other outdoor parking							
Staff Parking		20					
Public (Visitor) Parking		none					
	Total Spaces	20					

Fire Station #2 and #3 Program Space Needs Assessment

Building Area Calculations	Current Staff	Planned Staff	Area Required					
1. Public Spaces	0	0	270					
3. CZ- Suppression Operations	1	1	702					
4. CZ- Living	10	10	3,696					
5. Warm Zone	0	0	1,924					
6. Apparatus Bay (Hot Zone)	0	0	5,396					
7. Building Support Area	0	0	696					
Total	11	11						
Subtotal			12,685					
15% Gross-Up Factor (Common circulation, structure, shafts, etc.)								
(Use additional 5% Gross-Up Factor for Renovation)								
Total Main Building Area								

12/26/2023

			s	taff		Space N	eeds	Net	
Space	Descrip	tion	Current	Planned	Qty	Size	Reference Pg#	Sq. Ft.	Comments / *Adjacencies
1. Public Areas									
Public Vestibule &	Vestibule				1	100		100	
Lobby	Lobby								baby can be dropped off in drop off in
					1	100		100	Lobbly
		Subtotal:						200	
Front Window (no	Counter								Window to Command Desk (sim to
counter)								0	existing Station 2)
		Subtotal:						0	
Blood	Area in Lobby				1				
Draw/Pressure									
Check									
		Subtotal:						0	
Net Area							200		
35% Internal Circulation Factor								70	
Subtotal: Public Areas			0	0				270	

								·	
			S	taff		Space N	eeds	Net	
Space	Description	1	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
3. CZ- Suppression C	perations								
Lieutenant	Private Office		1	1	1	130	03.06	130	
(Station 2 only)									
	Sleep Room:				1	100	*sim 07.07	100	
	Bed							0	
	Locker 2' X 3' X 6'							0	
	Equipment:								
	Computer							0	
	Multifunction printer							0	
		Subtotal:						230	
Watch Desk	Office				1	270		270	
Window to Lobby)	Carrels	2			2	10		20	reports
	computer	2						0	
	Radio Equipment								
		1						0	
							290		
Net Area							520		
5% Internal Circulation Factor								182	
Subtotal: Cold Zone Suppression Operations			1	1				702	

			Si	taff		Space N	eeds	Net	
Space	Description	1	Current Planned		Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
1. C Z - Living	, , , , , , , , , , , , , , , , , , ,					•			
Firefighers' Sleep	Private Room		10	10	4	120	7.10	480	2 FT and 2 POC
Rooms									
	Bed							0	
	Lockers							0	
	Linen Storage							0	
								0	
		_							
		Subtotal:						480	
Wellness Room	Private Room				1	100		100	
	Future Sleep Rms								
	Bed							0	
	Lockers							0	
	Linen Storage							0	
								0	
		Subtotal:						100	
Locker Alcove	Locker Alcove				1	50			10 at 2
	4'x2'x6'	10						0	8 at 3
		Subtotal:			_			50	
Superior EMS Sleep					2	100	7.10	200	
+ Shower Rooms	Future Sleep Rms							_	
	Bed							0	
	Lockers							0	
	Linen Storage							0	
	Shower Room				1	100	7.07a	100	
		Subtotal:						200	
Firefighter Shower	ci o	Subtotal.				100	7.07.1	300	
Rooms	Shower Room				2	100	7.07.b		*Apparatus Bay
	Shower Room (ADA)							0	
	All to include:								
	Bench								*Locker Alcove
	Toilet							0	
	Sink							0	
	Shower							0	
		Subtotal:						200	

Toilet Room				S	taff		Space N	eeds	Net	
Urinal	Space	Description	<u> </u>	Current	Planned	Qty	Size	Reference Pg #		Comments / *Adjacencies
Urinal	Toilet	Toilet Room				1	77	7.05b	77	*Apparatus Bay
Toilet		Urinal								
Sink										
Day Room									0	*Locker Alcove
Day Room		SIIIK								
Day Room									U	
Day Room			Subtotal:						77	
Telephone	Day Room	Day Room				1	250		250	*Kitchen
TV		Study-Chairs	6						0	*Dining Room
Exercise Room Exercise Room 1 500 7.09c 500		Telephone							0	
Exercise Room 1 500 7.09c 500		TV							0	
Exercise Room 1 500 7.09c 500			6 1 1 1 1						252	
Weight Rack Dumbell Rack Treadmill 1	Eversise Bases	Evereice Beem	Subtotal:			1	500	7.00c		
Dumbell Rack	Exercise Room					1	300	7.030	300	
Treadmill 1										
Elliptical 1			1							
TRX Equipment 1										
Mirrors 1										
Sound Walls/Floor Monitors/TV Bluetooth speakers Stair Master 1 Subtotal: Subtotal: 1 400 400 *Day Room Walk-in Food Pantry Cabinets Countertop w/ sink Refrigerators Commercial-grade Microwave Microwave Microwave Commercial Range Commercial Hood w/ fire suppression Dishwasher Nate of the speakers Day Room 1 400 400 *Day Room *Done Supreior, One Fire *Done Supreio			1							
Bluetooth speakers Stair Master 1										
Stair Master										
Subtotal: Subtotal: Sob Subtotal: Subt		Bluetooth speakers								
Kitchen 1 400 400 *Day Room Walk-in Food Pantry 3 0 *Dining Room Cabinets 0 *Access to Patio Countertop w/ sink 0 Counter w/ stools in kitchen Refrigerators 2 0 One Supreior, One Fire Commercial-grade Microwave 1 0 Commercial Range 1 0 Commercial Hood w/ fire suppression 1 0 Dishwasher 1 0		Stair Master	1							
Walk-in Food Pantry 3 0 *Dining Room Cabinets 0 *Access to Patio Countertop w/ sink 0 Counter w/ stools in kitchen Refrigerators 2 0 One Supreior, One Fire Commercial-grade Microwave 1 0 0 Commercial Range 1 0 0 Commercial Hood w/ fire suppression 1 0 0			Subtotal:							
Cabinets 0 * Access to Patio Countertop w/ sink 0 Counter w/ stools in kitchen Refrigerators 2 0 One Supreior, One Fire Commercial-grade Microwave 1 0 O Commercial Range 1 0 O Commercial Hood w/ fire suppression 1 0 O Dishwasher 1 0 O	Kitchen	Kitchen				1	400		400	*Day Room
Countertop w/ sink Refrigerators Commercial-grade Microwave Commercial Range Commercial Hood w/ fire suppression Dishwasher Microwy stools in kitchen O One Supreior, One Fire		Walk-in Food Pantry	3						0	*Dining Room
Refrigerators 2 0 One Supreior, One Fire Commercial-grade 0 Microwave 1 0 Commercial Range 1 0 Commercial Hood w/ fire suppression 1 0 Dishwasher 1 0		Cabinets							0	* Access to Patio
Commercial-grade 0 Microwave 1 Commercial Range 1 Commercial Hood w/ 0 fire suppression 1 Dishwasher 1 0 0		Countertop w/ sink							0	Counter w/ stools in kitchen
Microwave 1 0 Commercial Range 1 0 Commercial Hood w/ fire suppression 1 0 Dishwasher 1 0		Refrigerators	2						0	One Supreior, One Fire
Commercial Range 1 0 Commercial Hood w/ fire suppression 1 0 Dishwasher 1 0		Commercial-grade								
Commercial Hood w/ fire suppression 1 0 Dishwasher 1 0		Microwave	1	<u> </u>					0	
fire suppression 1 0 Dishwasher 1 0		Commercial Range	1						0	
fire suppression 1 0 Dishwasher 1 0		Commercial Hood w/								
			1						0	
Commercial Freezer 1 0		Dishwasher	1						0	
		Commercial Freezer	1						0	
Subtotal: 400			Cubtatel						400	

			S	taff		Space N	leeds	Net	
Space	Descriptio	n	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
Dining Room	Dining Room				1	250		250	*Kitchen
	Table - size of table	10-12						0	
	Chairs							0	
								0	
		Subtotal:						250	
Custodial Storage	Area				1	80		80	
	Metal shelves							0	
		Subtotal:						80	
Small Training /	Table for 6				1	150	05.03	150	
Reading Room	computer stations	2						0	
	Book Case/Library								
								0	
		Subtotal:						150	
Laundry Room	Room				1	120		120	Wash/Dry large enough for bedding
	Residential Washer								
	Residential Dryer								
	Wash tub								
	Base Cabinets								
	Wall Cabinets							0	
		Subtotal:						120	
Net Area								2,957	
25% Internal Circulation Factor							739		
Subtotal: Cold Zone	Staff		10	10				3,696	

			S	taff		Space N	eeds	Net	
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
5. Warm Zone	•								
Personal Decon	Warm Zone Room				1	300		300	
Room	18" stackable lockers	20						0	
	Shower Rooms	2							
	Stackable Washer/								
	Dryer (contaminated								
	clothes)	1							
	Toilet Room	2							
	Dry Decon	2 person							
	,								
		Subtotal:						300	
Turn Out Gear	Gear Room				1	470			*Apparatus Bay
Room	Mesh Open Racks								,
	(2'x3')	30							*Decon Room
									2 sets of gear per Fire Fighter
									Doubles as storm shelter
								0	Separate Vent & Supply
		Subtotal:						470	
Laundry and	Positive pressure								*Apparatus Bay
Equipment Decon	Room				1	350		350	
	Commercial Stackable								
	Washer & Dryer (Rags)	1						0	
	Laundry Tub	1						0	
	Shelving (Soap and								
	Cleaning Supplies)	1						0	
	Mop Sink	1						0	
	Wash/Extract (60lb)	1						0	
	3 Tub Sink (SS)	1							
	Eye Wash	1						0	
	Gear Dryer	1							
	Mask/Tank washer	1							
		Subtotal:						350	
EMS	Area				2	120		240	*Apparatus Bay
Supplies/Storage	Sink for future							0	One for Superior one for FF
Secure Storage	storage shelves							0	
		Subtotal:						240	
Hot/Warm Zone	Area				1	120		120	*Apparatus Bay
Transition vesitbule								0	one per entry
								0	300
		Subtotal:						120	
Net Area								1,480	
30% Internal Circula	tion Factor					·		444	
Subtotal: Staff Comr	mons		0	0				1,924	

			S	taff		Space N	eeds		
Space	Description		Current	Planned	Qty	Size	Reference Pg #	Net Sq. Ft.	Comments / *Adjacencies
6. Apparatus Bay (H	ot Zone)								
Apparatus Bay (18'x65') Single deep (18'x80') double deep	Apparatus Bay 14'x14' Bi-fold Apparatus Engine 2 Squad 2 529 Command Boat on trailer	Length 31'11" 26' 19'5" 16'	18x65		1 1 1 1	3,800	12	0 0 0 0	Station #2 three bay pull thru w/boat. Station #3 three bay pull thru Bi-fold doors front, Oh'd rear Station 2 Station 2 Station 2 Station 2 Station 2
	Engine 3 Rescue 3 Ambulance	26' 32' 1" 18' 2" 22'-0"			1 1 1			0	Station 2 Station 3 Station 3 Station 3
	MEP								
Dathan Chancing	Space Ventilation Under vehicle wash Vehicle Exhaust 2" Fill & Washing Connection Compressed Air Lines over each bay Hose Bibs & Reels Oil Interceptor Trench Drain Infrared Linear Ceiling	x x x x x x x x x x x x x x						0 0 0 0 0 0	
Battery Charging area	Area 2hr rated room Charges Li batteries				1			0	
-		Subtotal:						0	

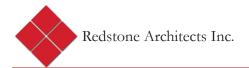
		Staff		Space Needs				
Space	Description	Current	Planned	Qty	Size	Reference Pg #	Net Sq. Ft.	Comments / *Adjacencies
Hose Drying and	Area			1	120		120	*Apparatus Bay
Storage							0	
	Storage Racks for							
	Hoses x						0	
	Hose Washer x						0	
	Floor Drain x						0	
	Dry Cabinet x						0	
	Subtotal:						120	
Toilet	Unisex Toilet			1	77		77	*Apparatus Bay
							0	
	Subtotal:						77	
SCBA Maintenance	Clean Room			1	100		100	*Apparatus Bay
							0	
							0	
							0	
	Subtotal:						100	
SCBA Cascade Room	Room			1	150		150	*Apparatus Bay
	Air Bottles Storage						0	
	Working Counter						0	
	Writing Desk						0	
	Subtotal:						150	
Parts/shop	Room			1	150		150	*Apparatus Bay
							0	
							0	
							0	
	Subtotal:						150	
Station Compressor	Room			1	100		100	INCLUDE IN PARTS/SHOP?
Room	Fresh Air Intake						0	
	Exhaust build up heat							
	to outside						0	
	Concrete pad						0	
	Subtotal:						100	
Net Area							4,497	
20% Internal Circulat		0					899	
Subtotal: Apparatus Bay			0				5,396	

			Staff		Space Needs			Net	
Space	Desc	cription	Current	Planned	Qty	Size	Reference Pg #	Sq. Ft.	Comments / *Adjacencies
9. Building Support	Areas								
Mechanical Room	Room				1	300		300	
		Subtotal:						300	
Electrical Room	Room				1	200		200	
		Subtotal:						200	
Server Room	Room				1	80		80	
		Subtotal:						80	
Net Area								580	
20% Internal Circulation Factor								116	
Subtotal: Building Su	upport Areas		0	0				696	·

Fire Station #2 #3 Program Space Needs Assessment

N	ovi MI
Project No. 3	709.00

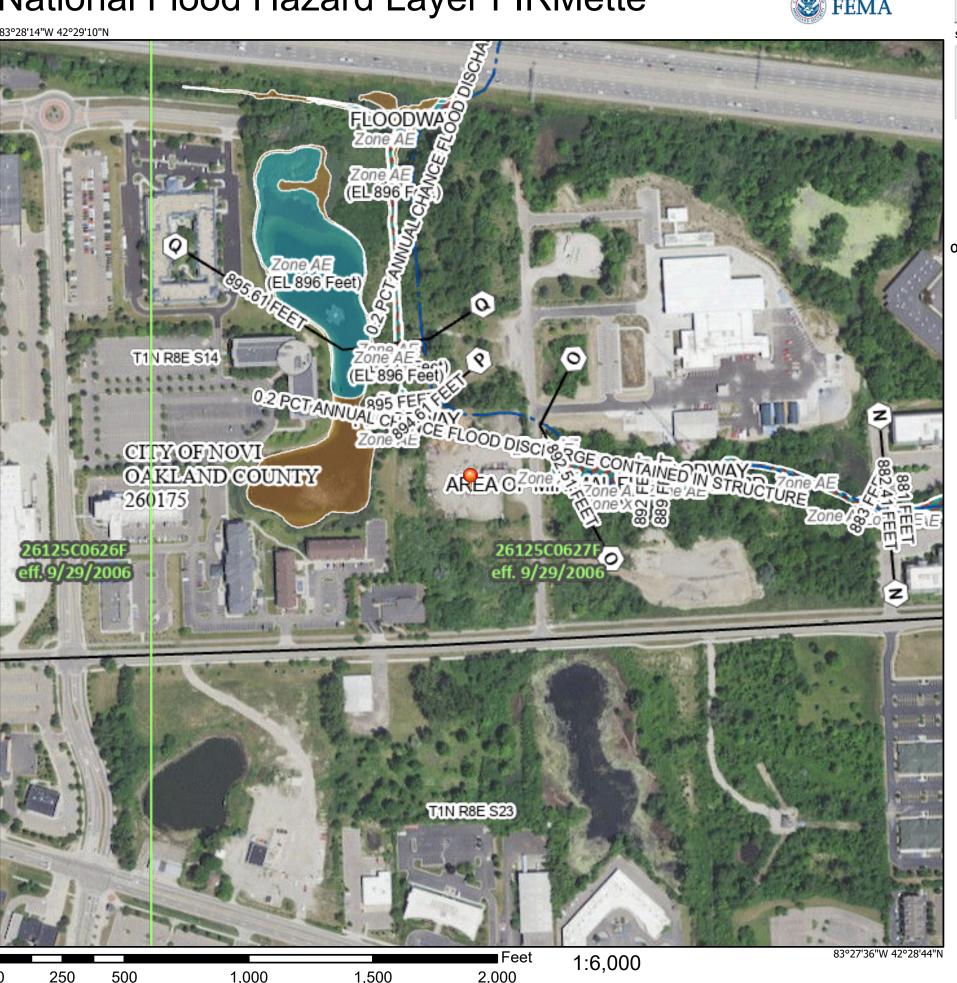
Parking Requirements:	Spaces
Other outdoor parking	?
Staff Parking	
Public (Visitor) Parking	See Shared Spaces
Total Spaces	0



SITE PLAN + BLOCK DIAGRAM

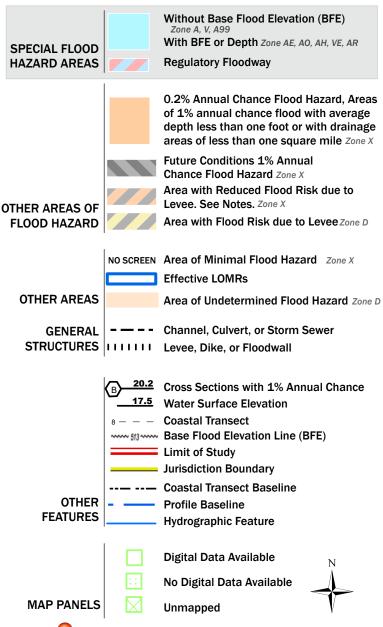
National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



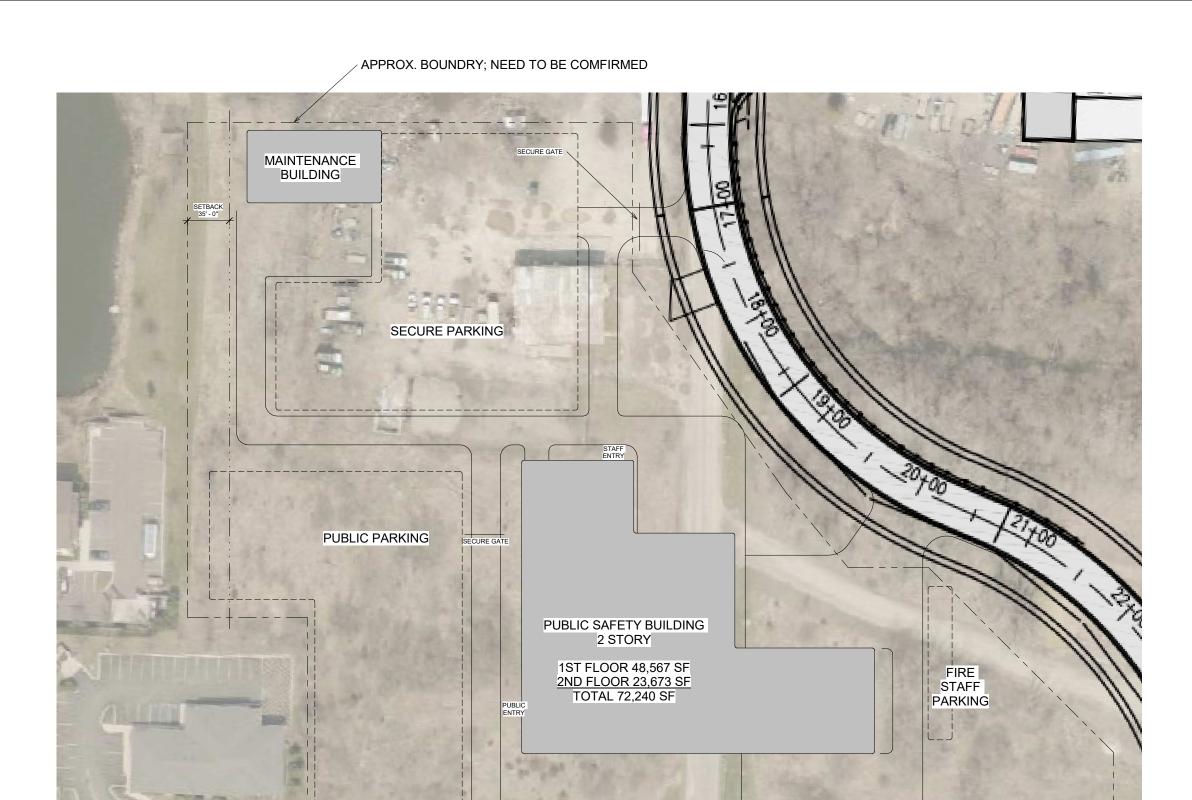
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The pin displayed on the map is an approximate

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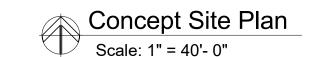
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/16/2023 at 2:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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BLOCK DIAGRAM CONCEPT November 21, 2023

City of Novi Public Safety Building







BLOCK DIAGRAM CONCEPT November 21, 2023

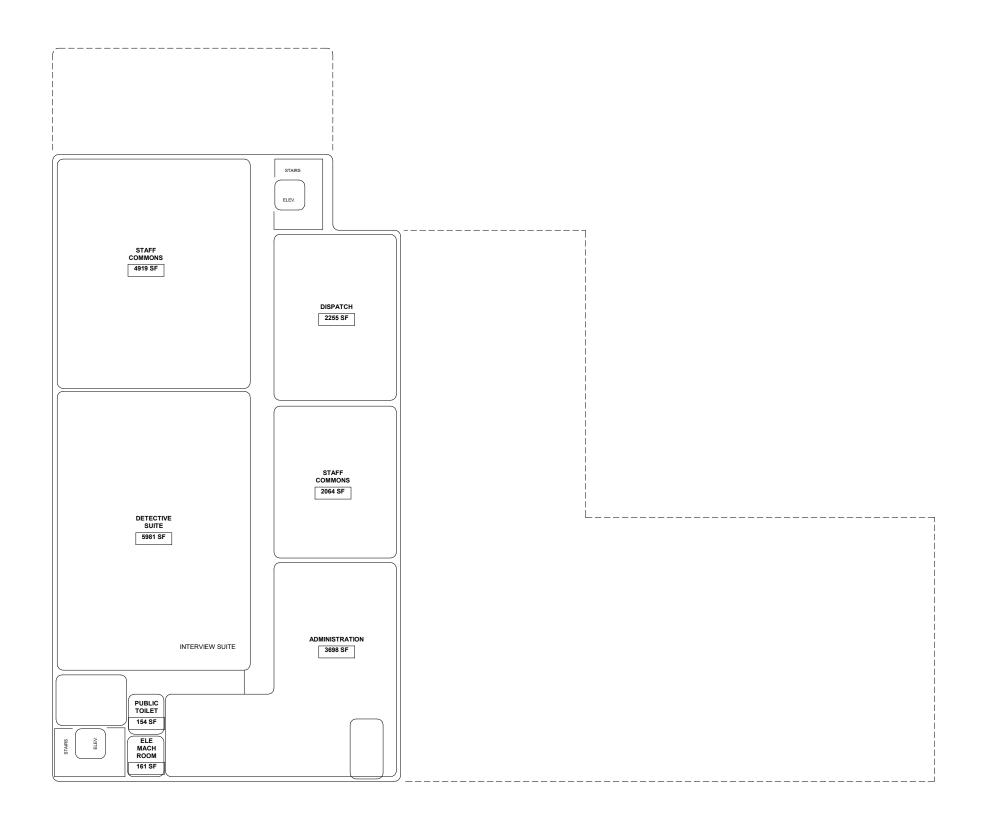
City of Novi Public Safety Building





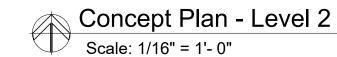
Scale: 1/16" = 1'- 0"



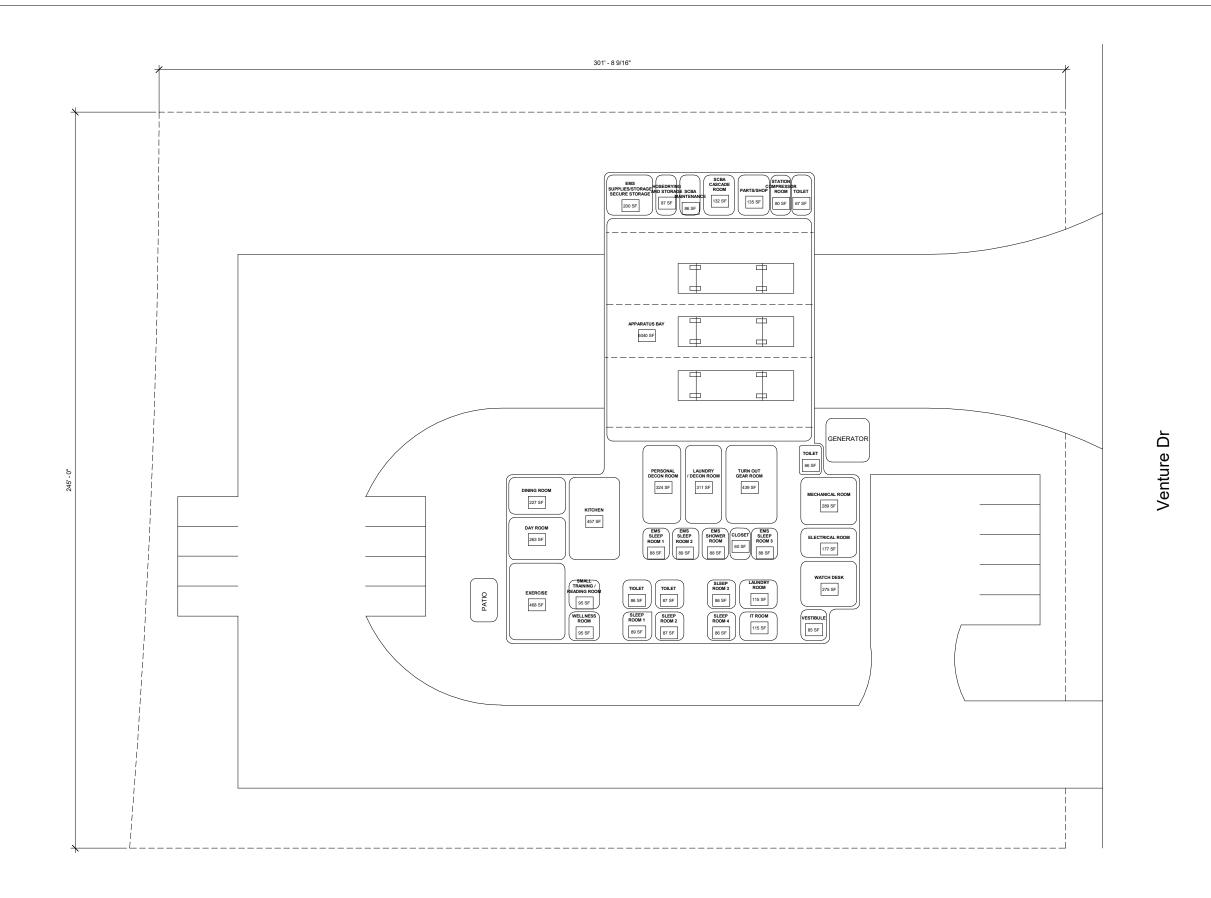


BLOCK DIAGRAM CONCEPT November 21, 2023

City of Novi Public Safety Building







Concept Plan

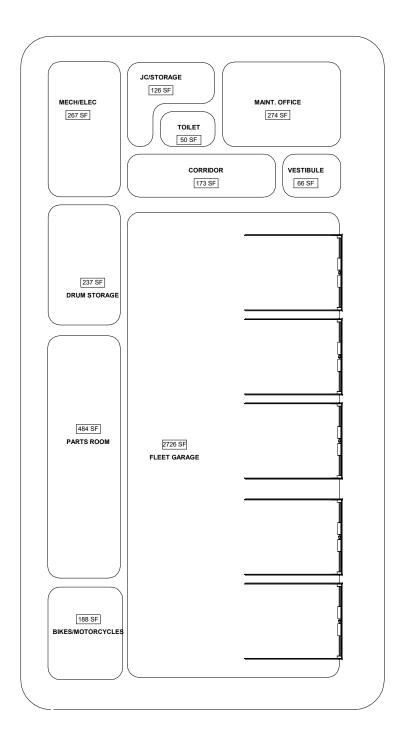
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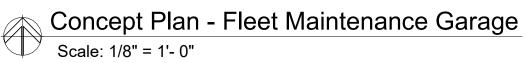
BLOCK DIAGRAM CONCEPT

September 28, 2023

City of Novi Fire Station 3 Study



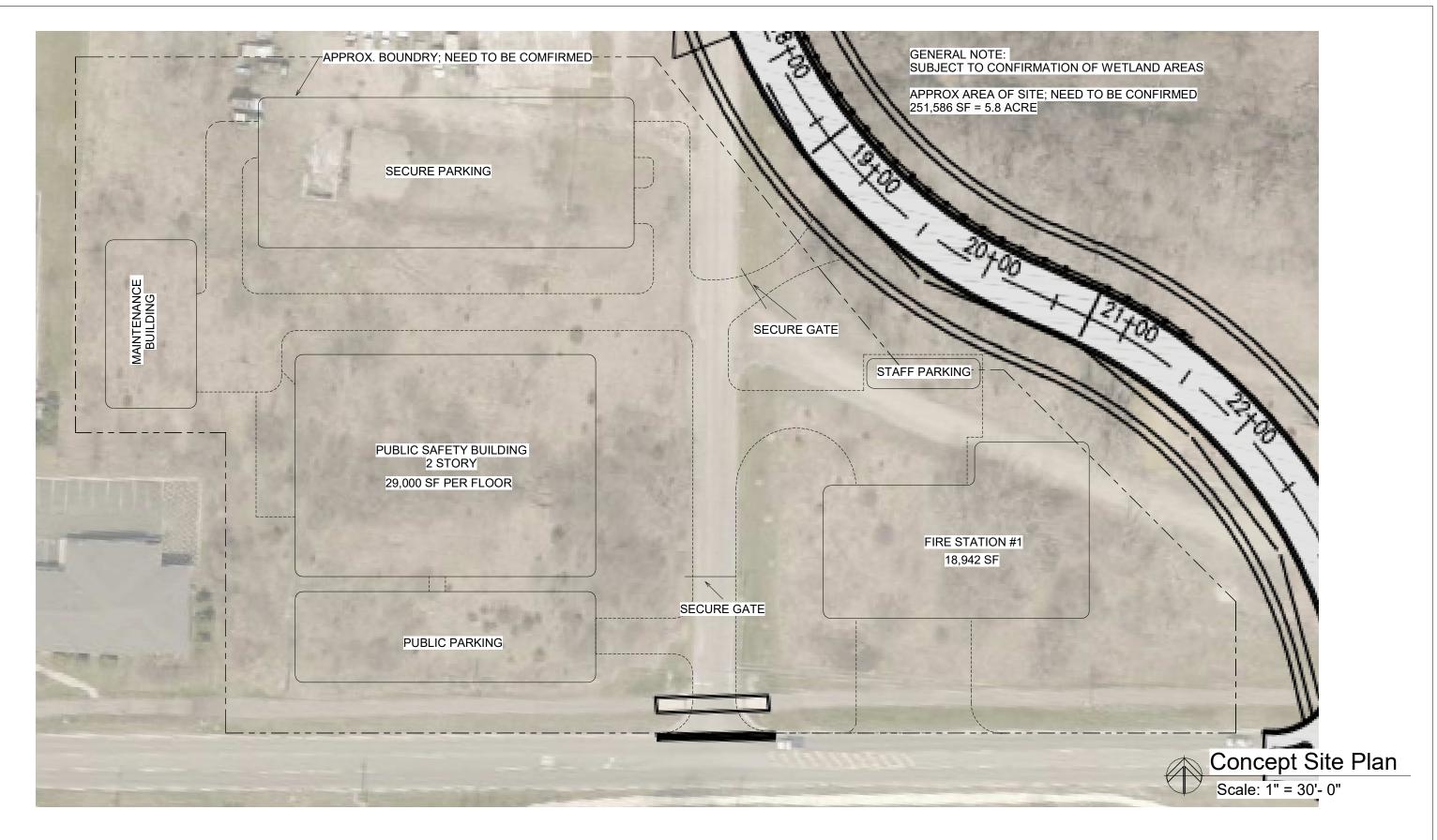




September 28, 2023

BLOCK DIAGRAM CONCEPT





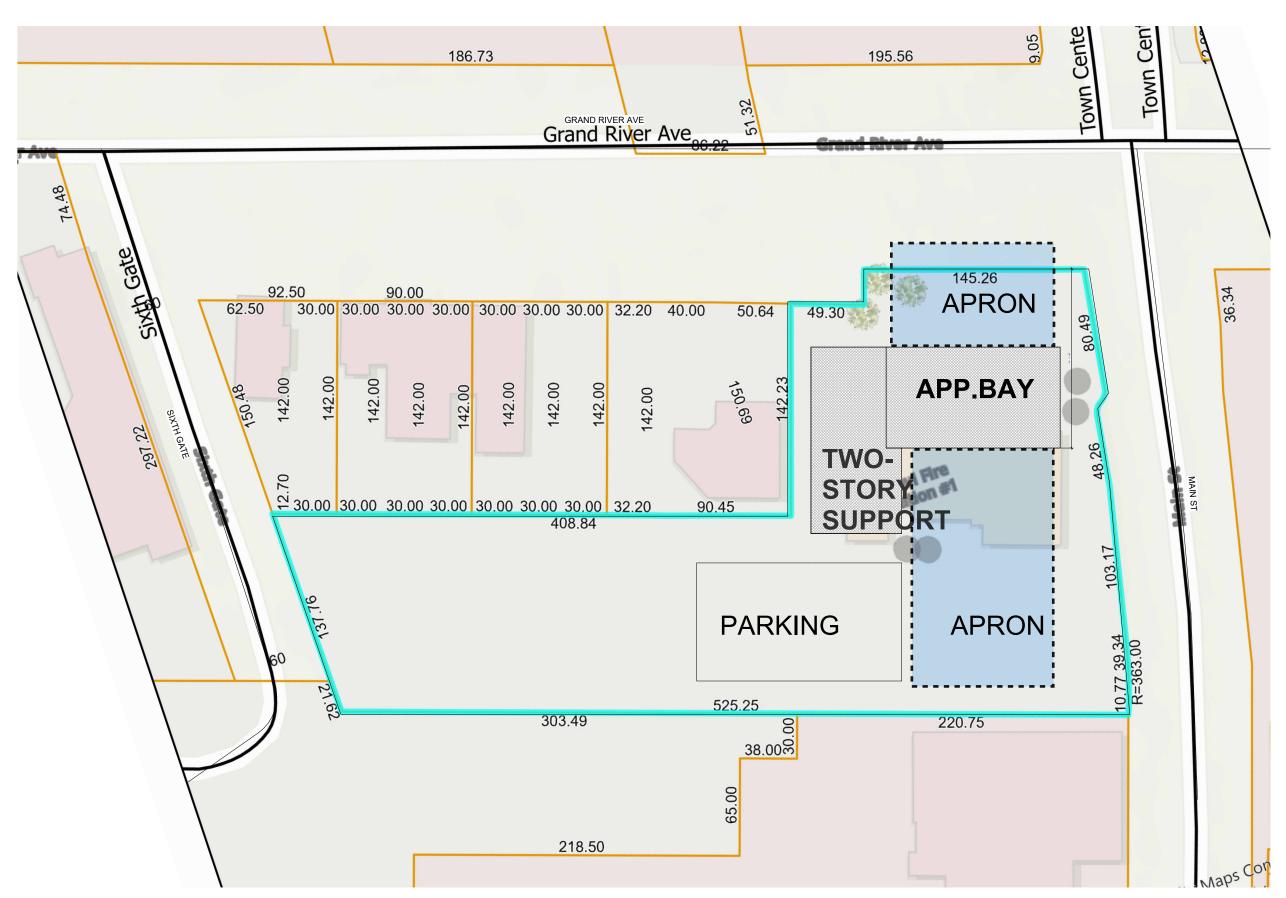
BLOCK DIAGRAM CONCEPT

FINAL REPORT - LEE BEGOLE SITE OPTION 1 - SEPARATE BUILDINGS - JANUARY 2024

September 28, 2023

City of Novi Public Safety Building





OPTION 2: NEW STATION #1 ON EXISTING SITE - REQUIRES A TWO-STORY PORTION