

Houghton County Justice Center Master Plan



Master Plan Study Charrette
Date of Charrette: 2/18/2025

Attendees

Name/Title	Attendance
County Commissioners	
Roy Britz, Commissioner	✓
Glenn Anderson, Commissioner	✓
Courts	
Nicholas J. Daavettila, 97 th District Court Judge	✓
Nickole Jollimore, Court Administrator / Magistrate's Office	✓
Probate and Family	
Fraser T. Strome, Judge	✓
Tracy Beauchamp	✓
Sheriff's Office/Jail	
Joshua B. Saaranen, Sheriff	✓
Travis Dessellier, Captain	✓
Charlie Klein, Detective Lieutenant	✓
Additional Steering Committee Members	
Kurt Rickard, Mayor, Hancock	✓
Tami Sleeman, City of Hancock Chief of Police	✓
Aaron Gehrke	✓
Kevin Store, CEO, Copper Shores Community Health Foundation	✓
Mary Sears, Franklin Township Supervisor	✓
Other Participants	
Tom Cremonte, Risk Control Consultant	✓
Ronald Trachet, Regulation Agent MDOC	✓
Study Team	
Jim Escamilla, PE, President/CEO	✓
Bret Dodd, AIA, LEED AP	✓
Total	18 +/-

+/- = All attendees may not have signed-in.



Agenda

Charrette Agenda	Duration	Time
Introductions	5 Minutes	9:00am – 9:05am
Master Plan Study Approach, Methodology and Status	5 Minutes	9:05am – 9:10am
Major Conclusions – Analytics, Space Standards, Space Evaluation and Projection Modeling	30 Minutes	9:10am – 9:40am
Existing Facility and Systems Evaluation	10 Minutes	9:40am – 9:50am
<i>Break</i>	15 Minutes	9:50am – 10:05am
2033 – 2043 Staff and Architectural Space Programs, Round Table Discussion	55 Minutes	10:05am – 11:00am
Introduction and Discussion of Pre-Charrette Options	30 Minutes	11:00am – 11:30am
<i>Lunch</i>	30 Minutes	11:30am – 12:00pm
Site/Building Charrette	60 Minutes	12:00pm – 1:00pm
<i>Break</i>	30 Minutes	1:00pm – 1:30pm
Consensus Building for Preferred Option and Next Steps	30 Minutes	1:30pm – 2:00pm
<i>Adjourn</i>	<i>5 Hours +/-</i>	<i>2:00pm +/-</i>

Approach and Methodology, Status and Schedule

Houghton County Justice Center Master Plan Study Approach and Methodology

STEP 1: PRE - PROJECT

- Project "Kick-Off-Meeting"
 - Define Project Committee, Roles and Lines of Communication.
 - Confirm Goals, Objectives, Approach and Methodology.
 - Confirm all Users/Stakeholders Included in the Study and Verify Contact Information.
 - Confirm Facilities and Existing Programs Included in the Study.
 - Confirm Specific Areas of Concern Identified by the County.
 - Define Review and Approval Process.
 - Confirm Schedule and Deliverables.
- Develop Base Sheets as Required for Communication of Study Information
- Develop, Issuance and Receipt of Data/Information.
- Develop, Issuance and Receipt of Questionnaires.

Complete

STEP 2: STRATEGIC PLANNING/VISIONING SESSION

- Complete Analytics to Define the Immediate (2024), Projected and Future Growth (2034 and 2045) of the Current County Courts, Incarceration/Jail, Community Corrections and Treatment Programs.
- Investigate and Evaluate Alternative Programs Not Currently Being Utilized by the County that may be Beneficial.
- Conduct an Evaluation of the Existing Available Facilities to Determine Viability for Future Use.
- Conduct a Visioning Session to Explore Alternative Programs not currently being utilized.
- Conduct User/Stakeholders Interviews, Meet with the Committee as required to Review and Confirm Conclusions.
- Complete Step Summary and Review with Users/Stakeholders and Committee.
- Present Conclusions to the Committee and Commissioners as Required.

In Process

STEP 3: STAFF AND SPACE PROGRAMMING

- Assess the opportunities within the community for partnerships to create treatment programs that support existing and anticipated County programs.
- Develop Detailed 10 (2034) and 20 (2044) Staff and Space Programs.
- Define 2044 Parking Needs.
- Define Critical Adjacent Areas Necessary for Operational and Service Efficiencies.
- Survey and analyze the existing and potential site(s).
- Meet with Users/Stakeholders and Committee as required to Review and Confirm Conclusions.
- Complete Step Summary and Review with Users/Stakeholders and Committee.
- Present Conclusions to the Committee and Commissioners as Required.

In Process

STEP 6: PRELIMINARY DESIGN (Add. Service)

- Develop Preliminary Design Drawings:
 - Site Plan.
 - Detailed Floor and Roof Plans.
 - Conceptual Information and Plans (Optional).
 - Elevations.
 - Exterior Image Rendering (Optional).
 - Typical Wall Sections.
- Complete Design Summary and Review with Users/Stakeholders and Committee as required to Review and Confirm Conclusions.
- Complete Phase Summary and Review with Users/Stakeholders and Committee.
- Draft/Final Report and Present Conclusions to the Committee and Commissioners as Required.

Additional Service, If Requested

STEP 5: RECONCILIATION (Add. Service)

- Assist with determining and defining funding capabilities.
- Alignment of Architectural Space Program and/or Scope of Work with needs and funding capabilities.
- Finalize design and construction schedule.
- Review and Confirm Conclusions.
- Meet with Users/Stakeholders and Committee as required to Review and Confirm Conclusions.
- Complete Design Summary and Review with Users/Stakeholders and Committee.
- Present Conclusions to the Committee and Commissioners as Required.

Additional Service, If Requested

STEP 4: CHARRETTE/CONCEPTUAL DESIGN




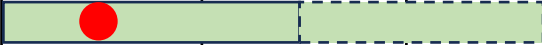
- Pre-Charrette:
 - Develop Charrette Tools.
- Charrette (Users/Stakeholders and Committee):
 - Review and Identify "Alternative Solutions" to Renovation and/or New Construction.
- Post-Charrette/Conceptual Design:
 - Refine and Finalize Conceptual Master Plan Design Options Graphics.
 - Develop Alternatives for Renovation and/or New Construction and Funding Options.
 - Prepare a life cycle cost analysis of the "Alternative Solutions" compared to renovation and/or new construction, including staffing projections.
 - Prepare and analyze financing and funding alternatives for the construction and operations of the facility.
 - Implementation/Phasing Plan and Schedule.
- Draft/Final Report and Present Conclusions to the Committee and Commissioners as Required.

In Process

Approach and Methodology, Status and Schedule

Index to Report		
Executive Summary		Pages
A. Introduction		
1. Purpose of the Study	Page	
2. Approach, Methodology and Study Schedule	Page	
B. Strategic Planning/Facility Evaluation		
1. Historic Data	Page	
2. Analytics and Projection Modeling	Page	
3. Bed Recommendations	Page	
4. Comparative County Jail Evaluation	Page	
5. Space Standards	Page	
6. Existing Space and Facility Systems Evaluation	Page	
C. Staff and Space Programming		
1. Staff Program	Page	
2. Architectural Space Program	Page	
3. Existing, Projected and Programmed Evaluation	Page	
4. Parking Projections	Page	
D. Charrette, Post-Charrette and Conceptual Design		
1. Charrette	Page	
2. Post-Charrette	Page	
3. Conceptual Design	Page	
4. Opinion of Probable Cost and Options	Page	
5. Budget Considerations	Page	
6. Anticipated Project Schedule	Page	
7. Advantages and Disadvantages	Page	
8. Next Steps	Page	
Appendices		
<i>Appendix A: Approach and Methodology</i>	<i>Page</i>	<i>2</i>
<i>Appendix B: Historic Data, Analytics, Projection Modeling, Bed Recommendations and Comparative County Jail Evaluation</i>	<i>Pages</i>	<i>49</i>
<i>Appendix C: Space Standards</i>	<i>Pages</i>	<i>15</i>
<i>Appendix D: Existing Space and Facility Systems Evaluation</i>	<i>Pages</i>	<i>42</i>
<i>Appendix E: Staff Program</i>	<i>Pages</i>	<i>12</i>
<i>Appendix F: Architectural Space Program</i>	<i>Pages</i>	<i>20</i>
<i>Appendix G: Existing, Projected and Programmed Evaluation</i>	<i>Pages</i>	<i>3</i>
<i>Appendix H: Parking Projections</i>	<i>Pages</i>	<i>2</i>
<i>Appendix I: Charrette</i>	<i>Pages</i>	<i>148</i>
<i>Appendix J: Post-Charrette</i>	<i>Pages</i>	<i>TBD</i>
<i>Appendix K: Conceptual Design</i>	<i>Pages</i>	<i>TBD</i>

Approach and Methodology, Status and Schedule

Anticipated Project Schedule							
STEP	2024			2025			
	October	November	December	January	February	March	April
STEP 1: PRE - PROJECT	 <i>Kick-Off Meeting 10/30/2024</i>						
STEP 2: STRATEGIC PLANNING/ VISIONING SESSION				 <i>Study Meeting #1 1/16/2025</i>			
STEP 3: STAFF AND SPACE PROGRAMMING							
STEP 4: CHARRETTE/ CONCEPTUAL DESIGN					 <i>Charrette: February 2/18/2025</i>		

STEP	ANTICIPATED COMPLETION
STEP 1: PRE - PROJECT	Completed
STEP 2: STRATEGIC PLANNING/VISIONING SESSION	Draft Issued. Completion End of February
STEP 3: STAFF AND SPACE PROGRAMMING	Draft Issued. Completion End of February
STEP 4: CHARRETTE/CONCEPTUAL DESIGN	Charrette: 2/18/2025 Conceptual Design, Reports and Board of County Commissioners Presentations: Mid March to Mid April Dependent Upon Post-Charrette Duration

Overview of Analytics and Projection Modeling

- **Historic Data:**

- **Courts:**

- Annual Total Caseload for Each Court by Case Type.

- **Sheriff's Office:**

- Average Period Arrests.
 - Average Calls for Service.

- **Jail:**

- Average Annual Jail Bookings (AJB).
 - Average Monthly Jail Bookings (AMB).
 - Average Daily Bookings (ADB).
 - Average Length of Stay (ALOS).
 - Average Daily Population (ADP).
 - Average Racial Mix.
 - Average Age Group.

- **Analytics and Projection Modeling:**

- **Population**

- **Courts:**

- Total Caseload.
 - Total Courts Caseload Ratios With and Without Pandemic Years.
 - Projection Model 1: 2013 – 2023 (With Pandemic Years).
 - Projection Model 2: 2013 – 2019 (Without Pandemic Years).
 - Summary.

- **Sheriff's Office**

- Calls for Service and Arrests.

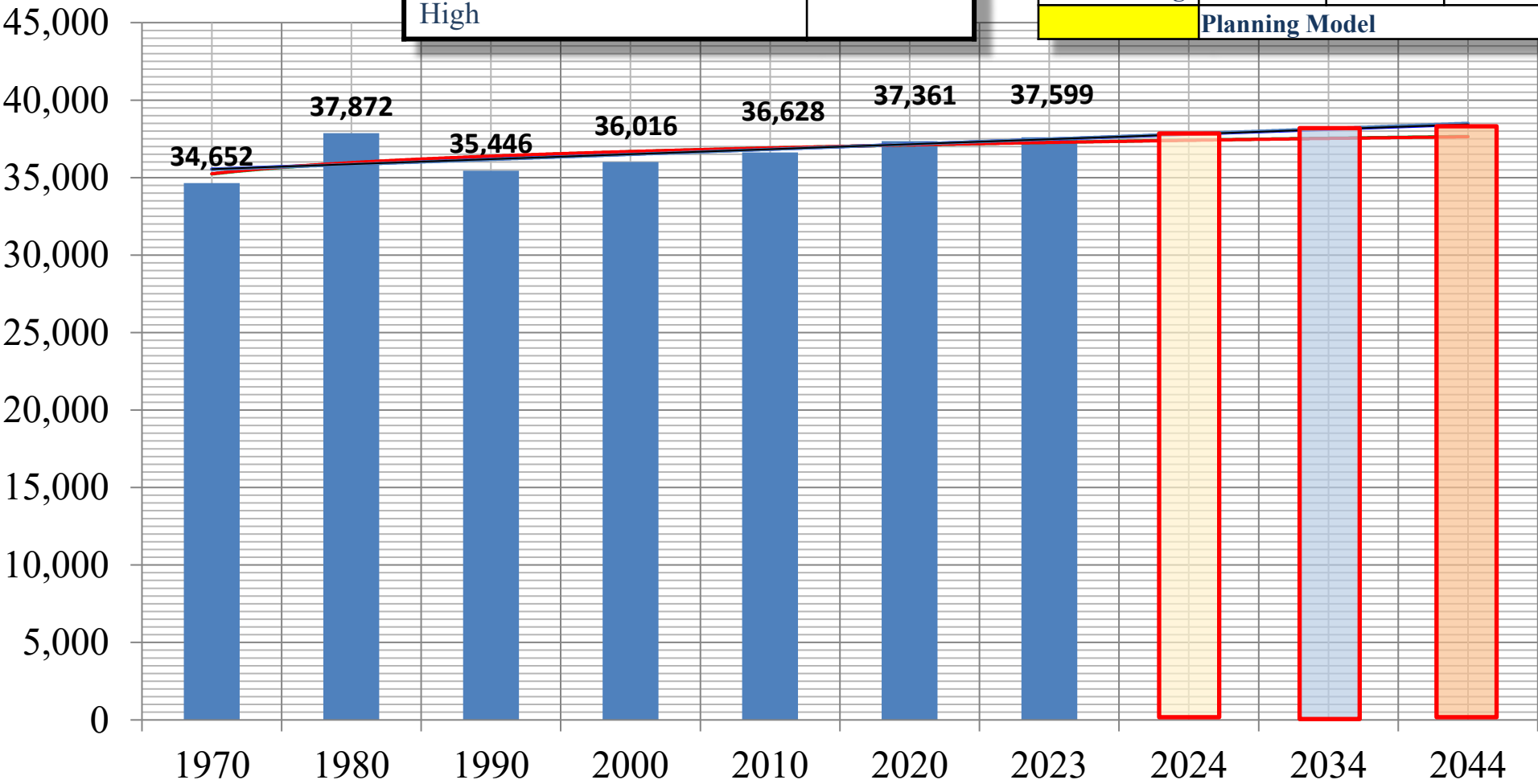
- **Jail**

- Average Annual Jail Bookings (AJB).
 - Average Monthly Jail Bookings (AMB).
 - Average Daily Bookings (ADB).
 - Average Length of Stay (ALOS).
 - Average Daily Population (ADP).
 - Summary.

Population Projections

Growth Rate Classification	Type
Low	√
Low to Moderate	
Moderate	
High	

Algorithm	2024	2034	2044
Exponential	37,959	38,371	38,507
Power	37,688	37,878	37,930
Linear	37,957	38,369	38,499
Logarithmic	37,688	37,875	37,928
Average	37,823	38,123	38,216
	Planning Model		

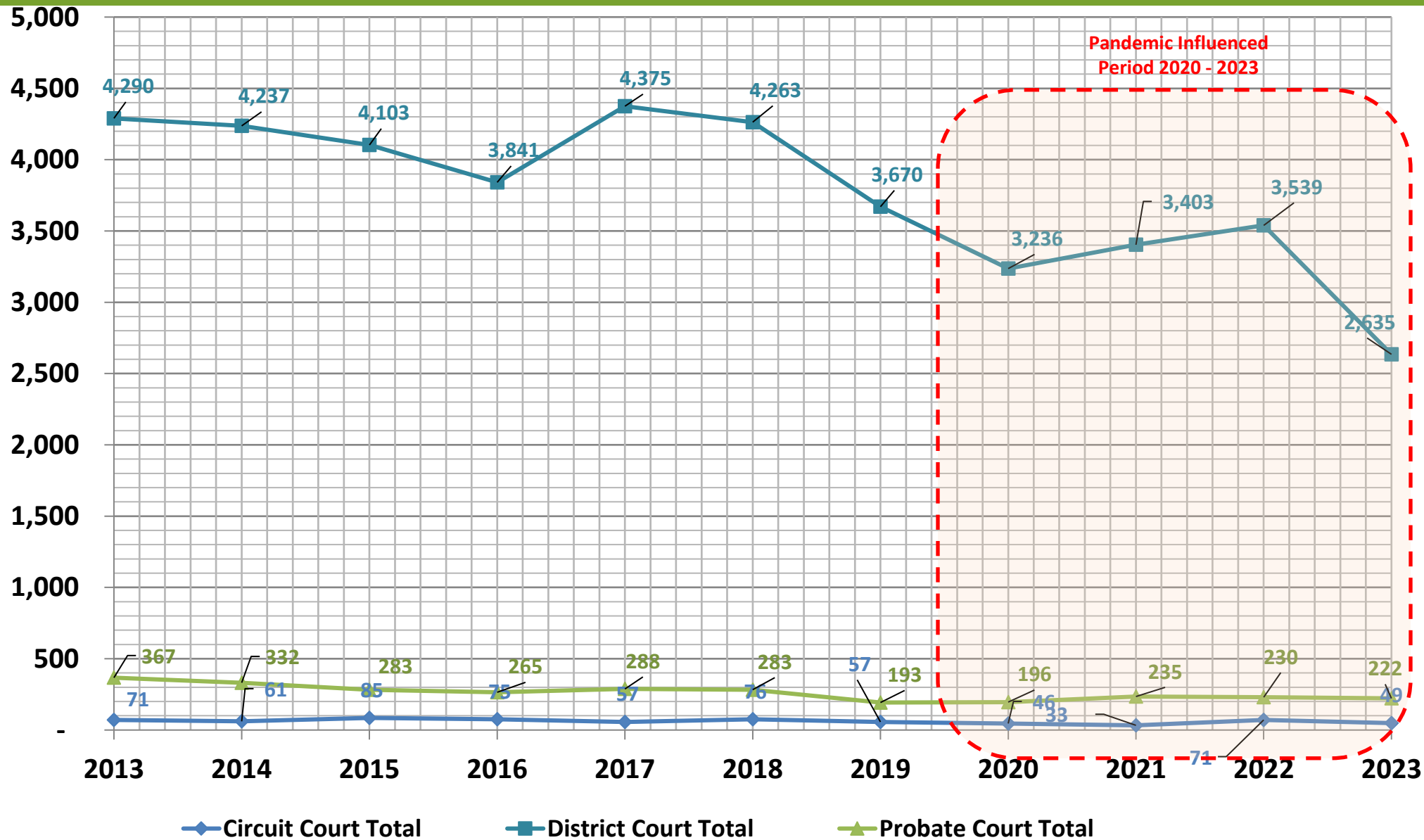


— Exponential — Power Projection — Linear Projection — Logarithmic Projection

Historic Court Data

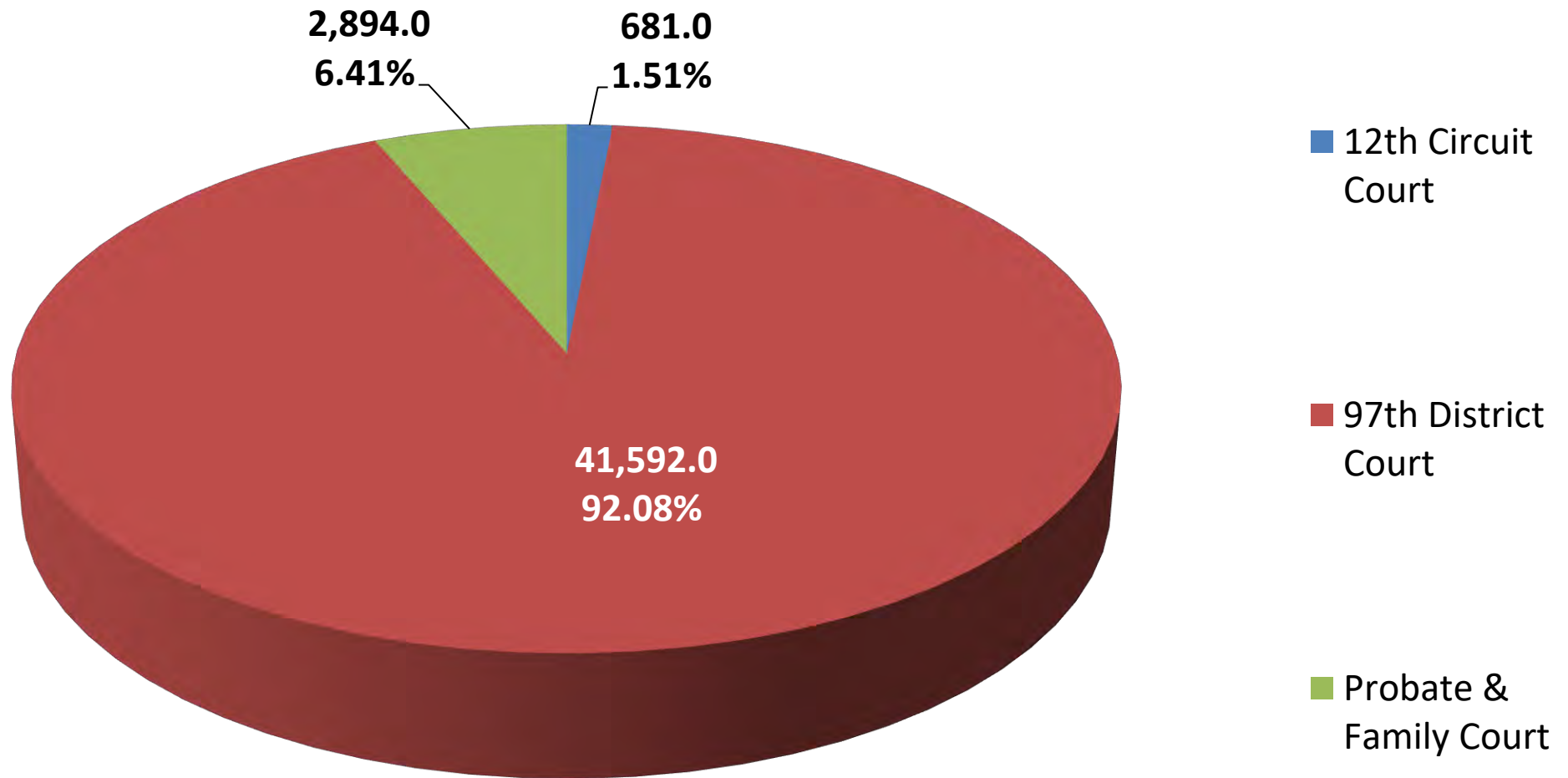
Year	12th Circuit Court			97th District Court							Probate & Family Court						Total All
	Case Type FH (1).	Case Type FC (2).	Total	Criminal	Traffic (3).	Non- Traffic Civil	Civil	Treatment Court	Probation	Total	PPO's (4).	Juvenile Delinquency	Juvenile Direct	Mental Health	Family Domestic Civil	Total	
2013	70	1	71	805	1,958	40	945		542	4,290	73	85	10	85	114	367	4,728
2014	59	2	61	832	2,015	56	913		421	4,237	40	78	9	82	123	332	4,630
2015	84	1	85	815	1,926	101	731		530	4,103	53	64	8	71	87	283	4,471
2016	74	1	75	757	1,892	71	688		433	3,841	52	46	9	71	87	265	4,181
2017	56	1	57	757	2,224	106	872		416	4,375	50	66	5	66	101	288	4,720
2018	71	5	76	764	2,116	85	909		389	4,263	58	40	8	65	112	283	4,622
2019	56	1	57	769	1,805	88	664		344	3,670	39	33	4	41	76	193	3,920
2020	46	0	46	729	1,555	97	491		336	3,208	42	33	4	41	76	196	3,450
2019-2020			0					28		28						-	28
2021	33	0	33	829	1,643	68	502		307	3,349	47	50	5	56	77	235	3,617
2020-2021								54		54						-	54
2022	67	4	71	795	1,721	75	510		378	3,479	49	39	2	61	79	230	3,780
2021-2022								60		60						-	60
2023	45	4	49	558	1,491	61	467			2,577	51	47	10	54	60	222	2,848
2022-2023			0					58		58						-	58
Total	661	20	681	8,410	20,346	848	7,692	200	4,096	41,592	554	581	74	693	992	2,894	45,167
Total Period Average	60.1	1.8	61.9	841.0	2,034.6	84.8	769.2	50	409.6	4,189	55.4	58.1	7.4	69.3	99.2	289	4,541
2013 - 2018 Total	414	11	425	4,730	12,131	459	5,058	0	2,731	25,109	326	379	49	440	624	1,818	27,352
2013 - 2018 Period Average	69.0	1.8	70.8	788.3	2,021.8	76.5	843.0	0	455.2	4,185	54.3	63.2	8.2	73.3	104.0	303	4,559
General Notes:																	
	Pandemic Influenced Period																
	Period High																
	Period Low																
Table Notes:																	
(1). FH = Non-Capital Offense																	
(2). FC = Capital Felonies: Capital felony cases in which life sentence is possible and a larger number of peremptory jury challenges is provided																	
(3). Traffic = Misdemeanor and Civil																	
(4). PPO's = Personal Property Protection Orders																	

Historic Total Court Caseload Data Summary: 2013 – 2023



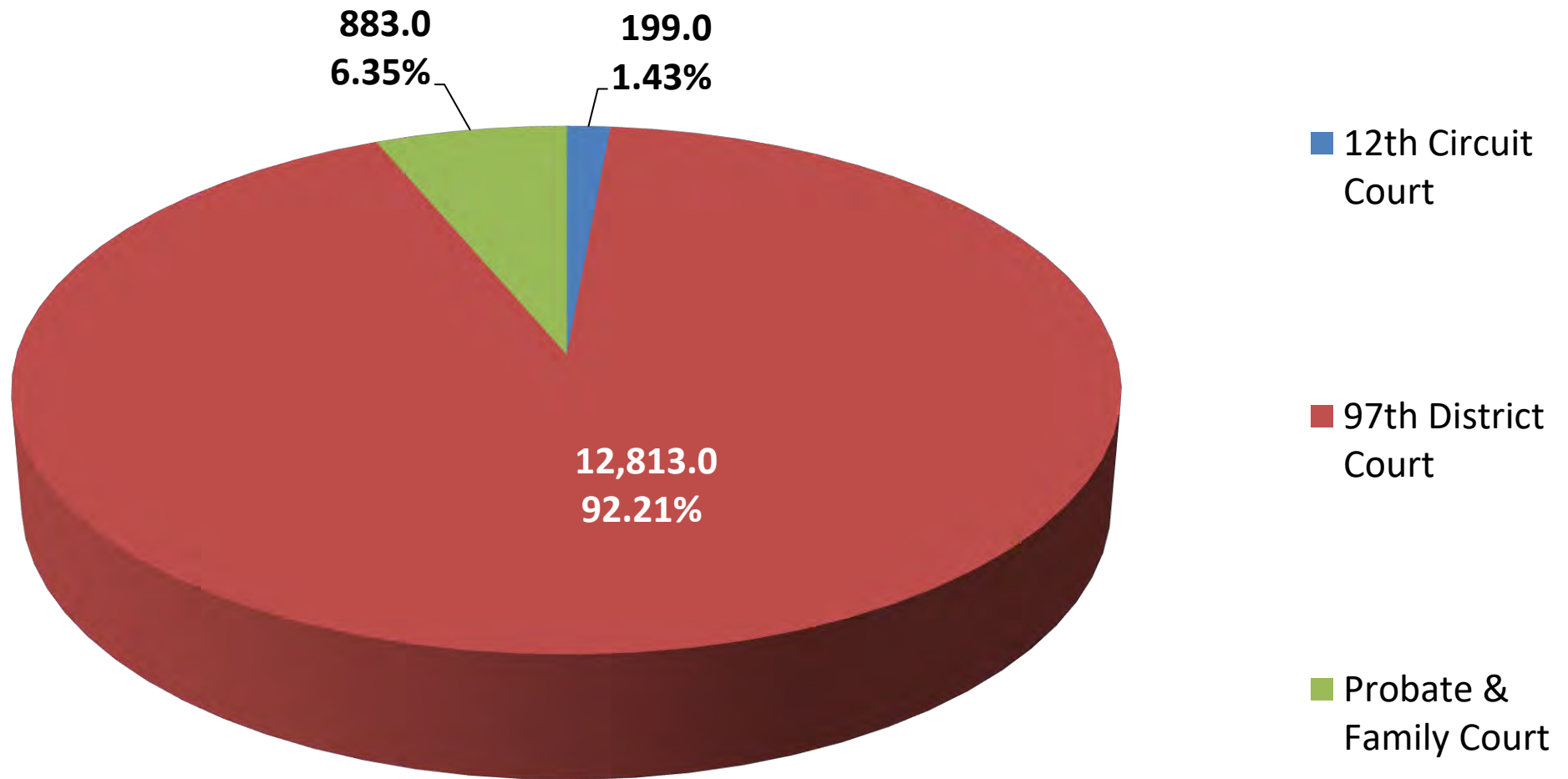
12th Circuit, 97th District, Probate & Family Courts Ratio

Historical Total Caseload Ratio: 2013 - 2023



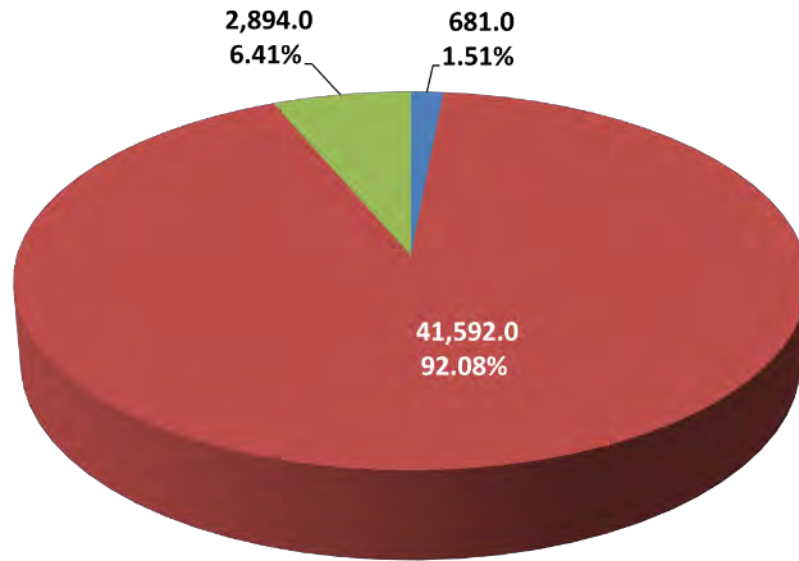
12th Circuit, 97th District, Probate & Family Courts Ratio

Historical Total Caseload Ratio: 2013 - 2019

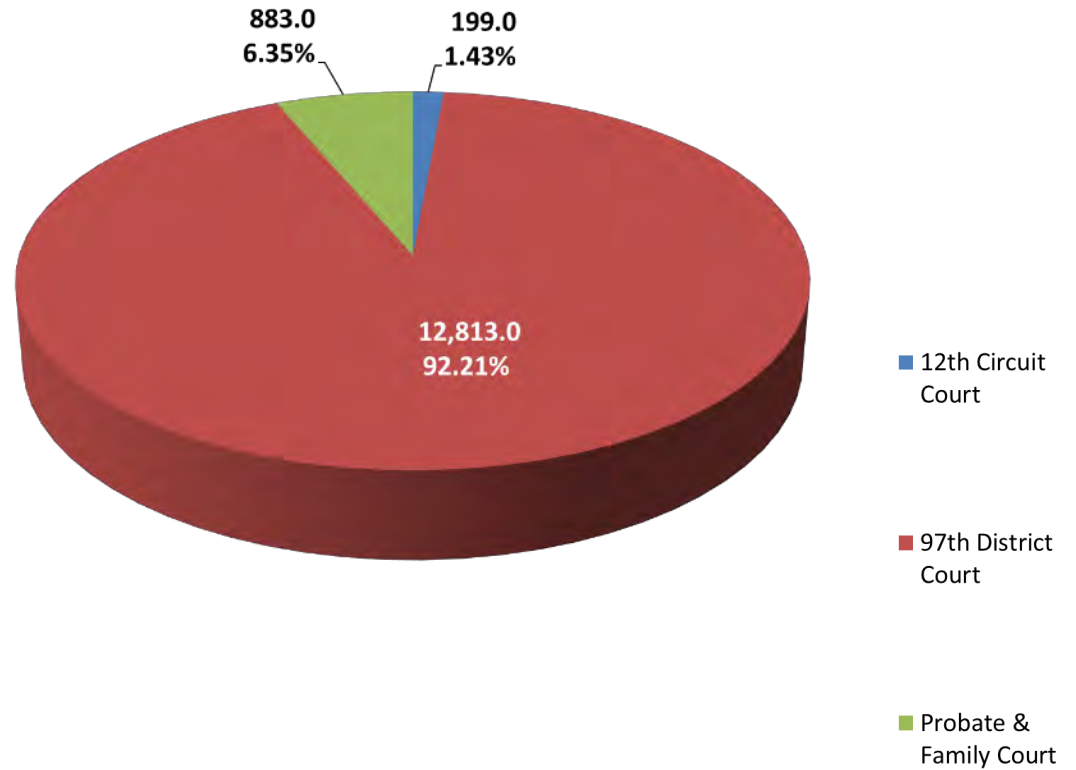


Historic Total Caseload Ratio

Historical Total Caseload: 2013 - 2023

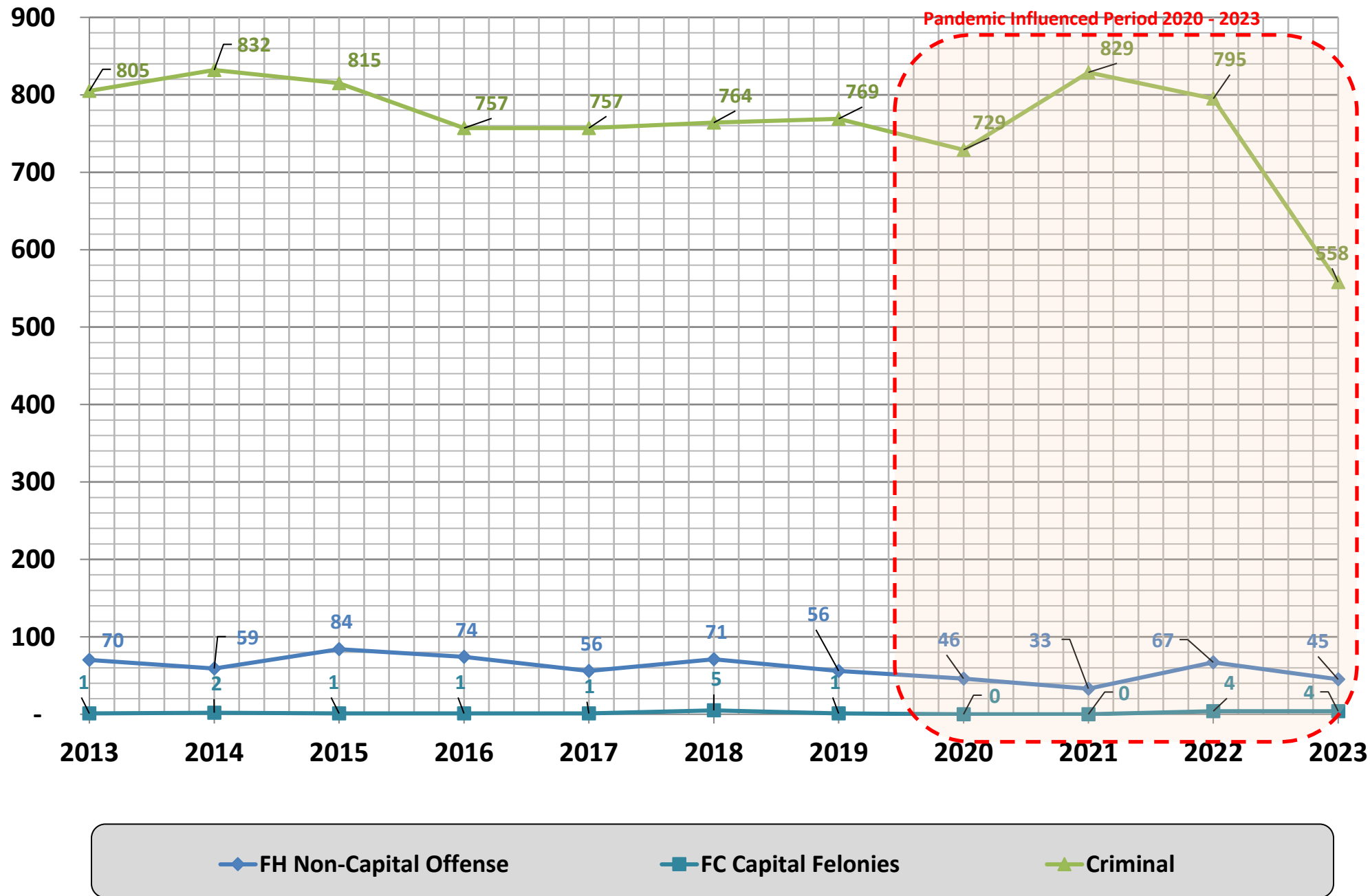


Historical Total Caseload: 2013 - 2019



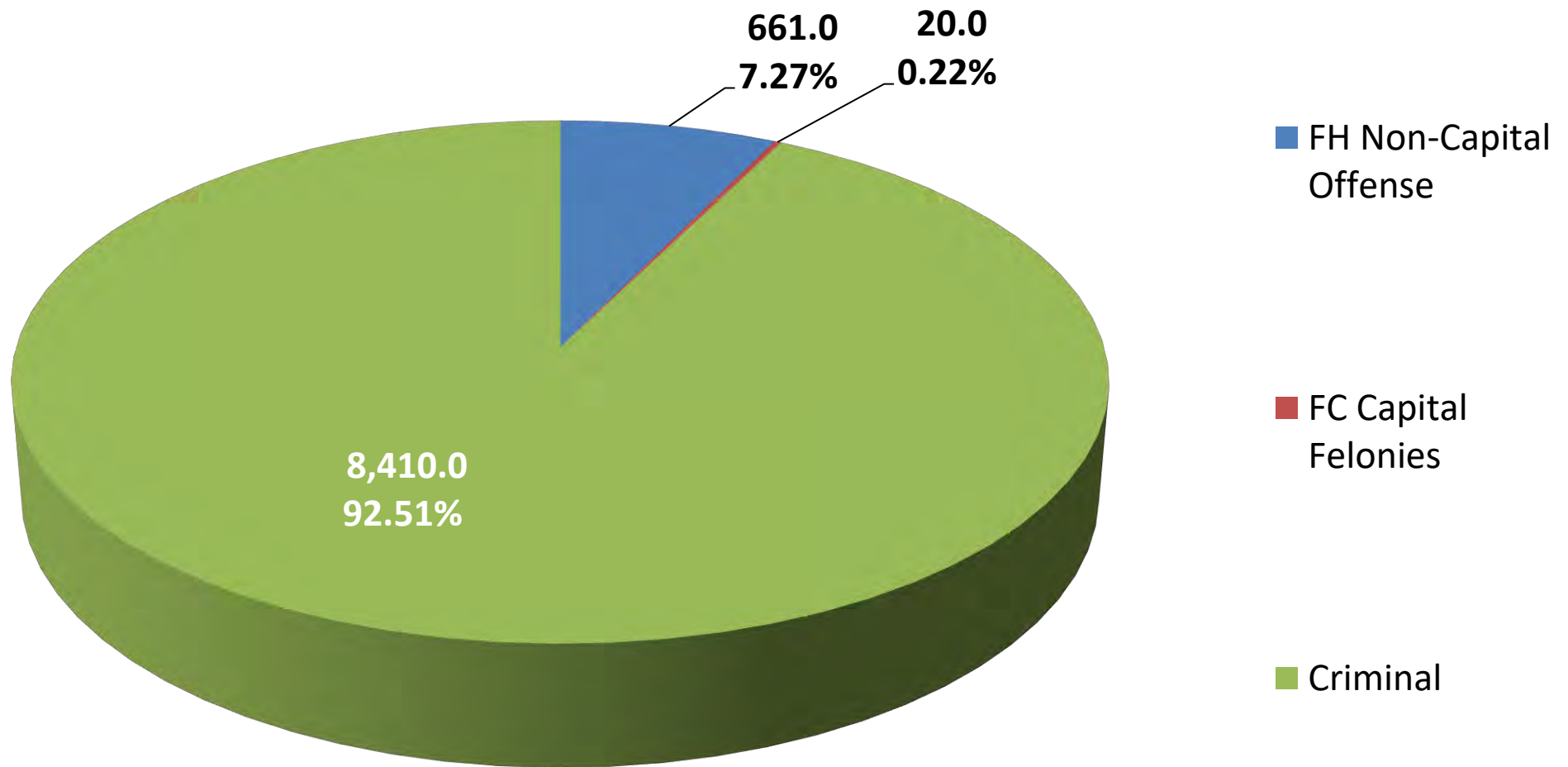
Court	Total Caseload 2013 - 2023	Ratio	Total Caseload 2013 - 2019	Ratio
12th Circuit Court	681.0	1.51%	199.0	1.43%
97th District Court	41,592.0	92.08%	12,813.0	92.21%
Probate & Family Court	2,894.0	6.41%	883.0	6.35%

Felony and Criminal Court Caseload Data Summary: 2013 – 2023



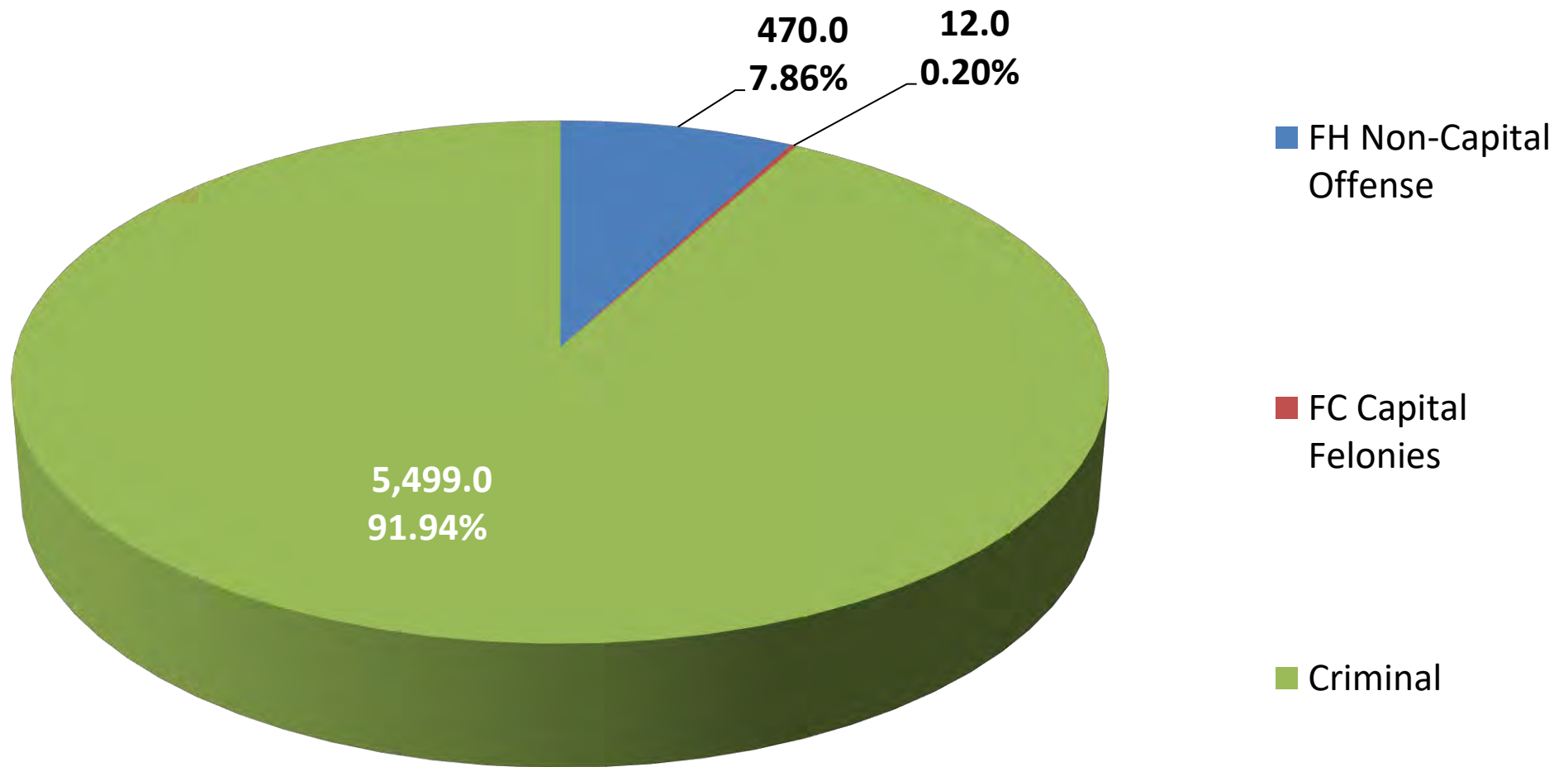
Felony and Criminal Court Caseload Ratio

Felony and Criminal Caseload Ratio: 2013 - 2023



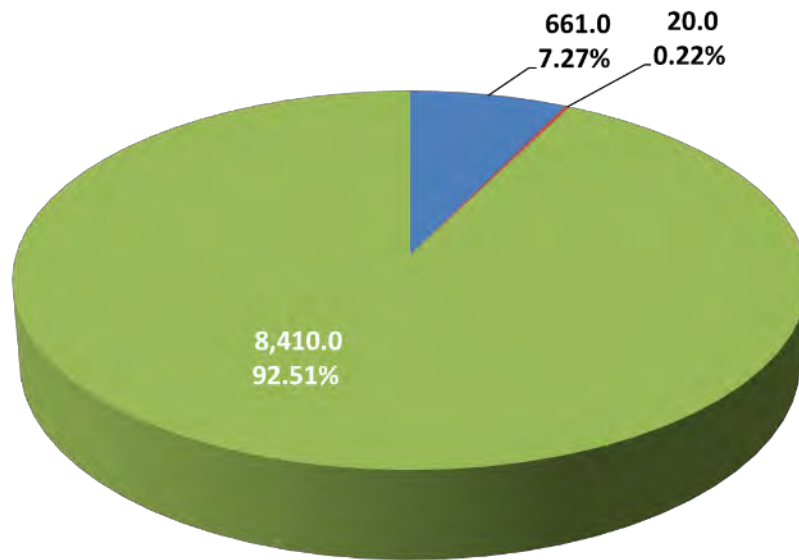
Felony and Criminal Court Caseload Ratio

Felony and Criminal Caseload Ratio: 2013 - 2019

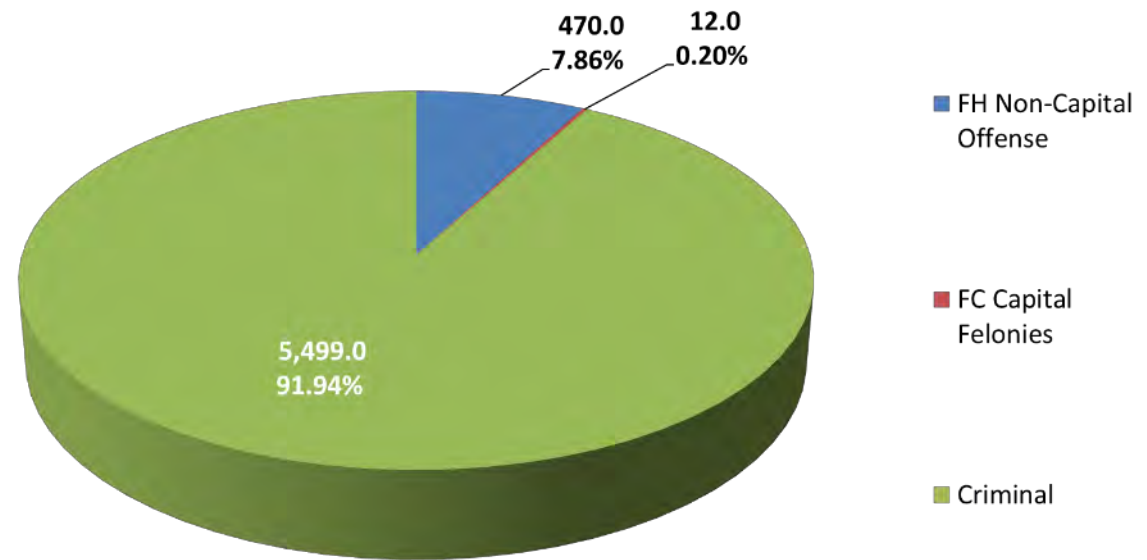


Circuit and District Courts

Felony and Criminal Caseload Ratio: 2013 - 2023



Felony and Criminal Caseload Ratio: 2013 - 2019

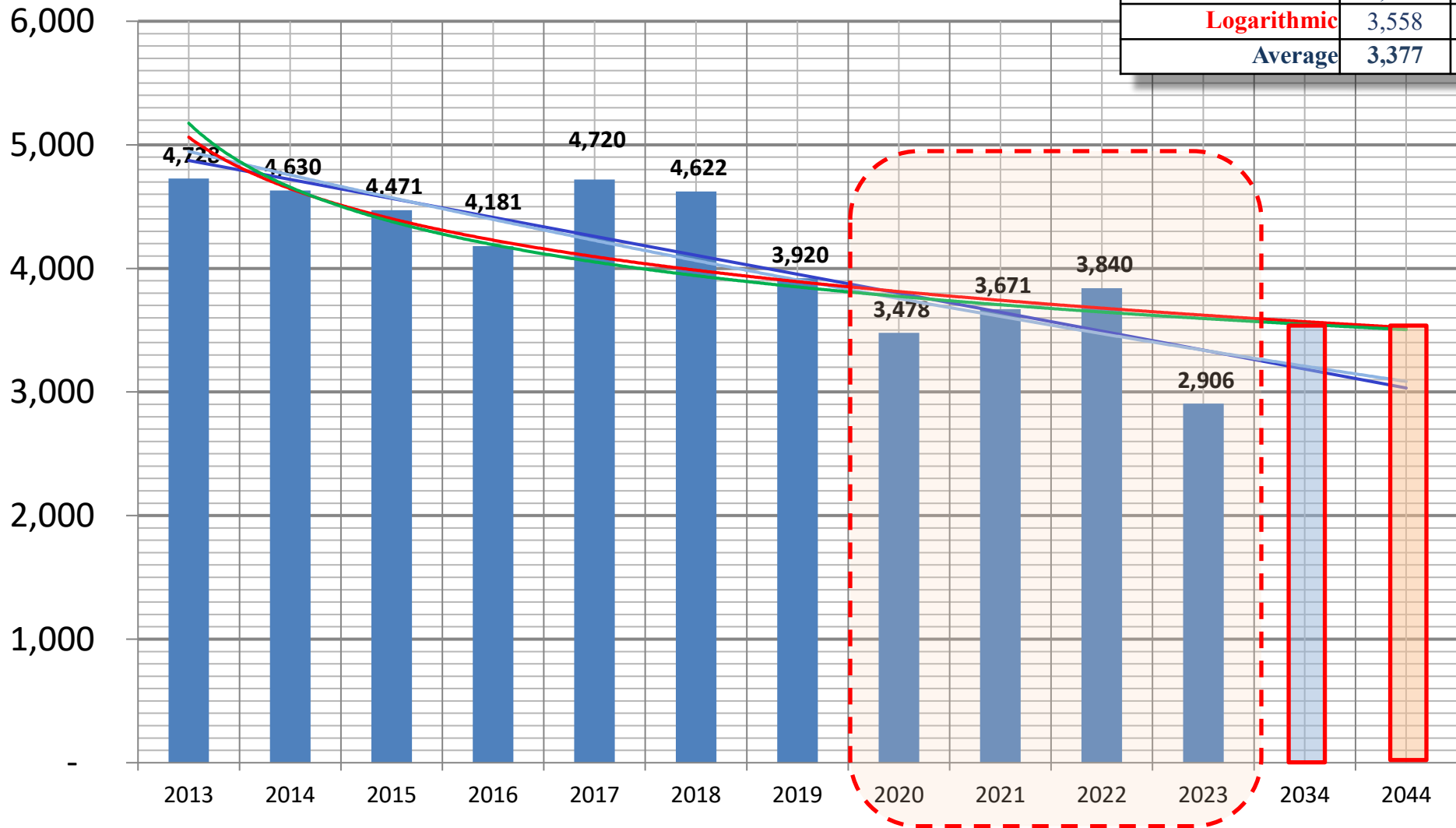


Crime Type	Total Caseload 2013 - 2023	Ratio	Total Caseload 2013 - 2019	Ratio
FH Non-Capital Offense	661.0	7.27%	470.0	7.86%
FC Capital Felonies	20.0	0.22%	12.0	0.20%
Criminal	8,410.0	92.51%	5,499.0	91.94%

Total Court Caseload Projection Model 1: 2013 - 2023

**Total Courts Caseload
Projection Model 1: 2013 - 2023**

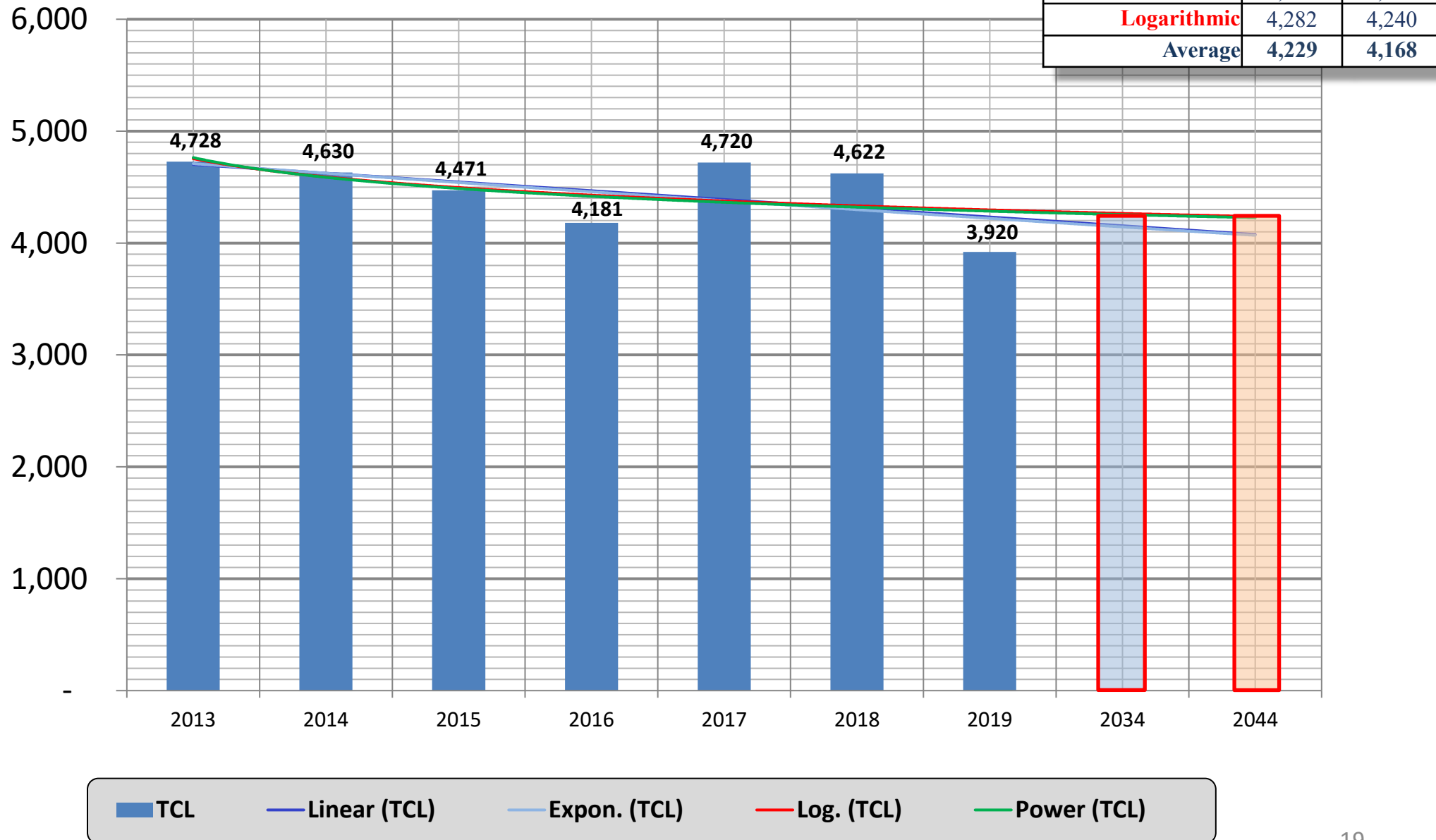
Algorithm	2034	2044
Exponential	3,205	3,104
Power	3,549	3,510
Linear	3,197	3,038
Logarithmic	3,558	3,521
Average	3,377	3,293



■ TCL
 — Linear (TCL)
 — Expon. (TCL)
 — Log. (TCL)
 — Power (TCL)

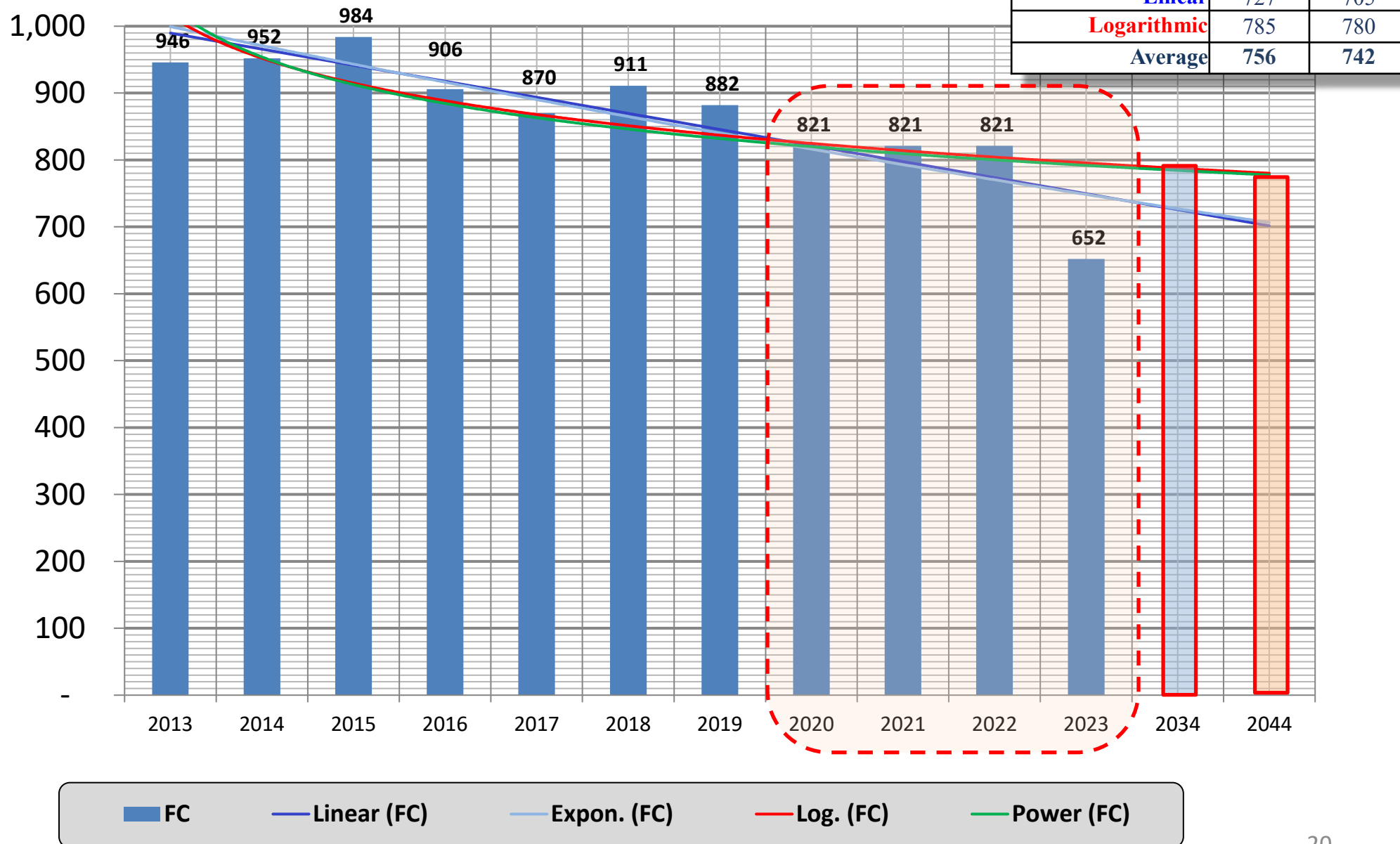
Total Court Caseload Projection Model 2: 2013 – 2019

Circuit and District Courts Total New Caseload Projection Model 2: 2013 - 2019



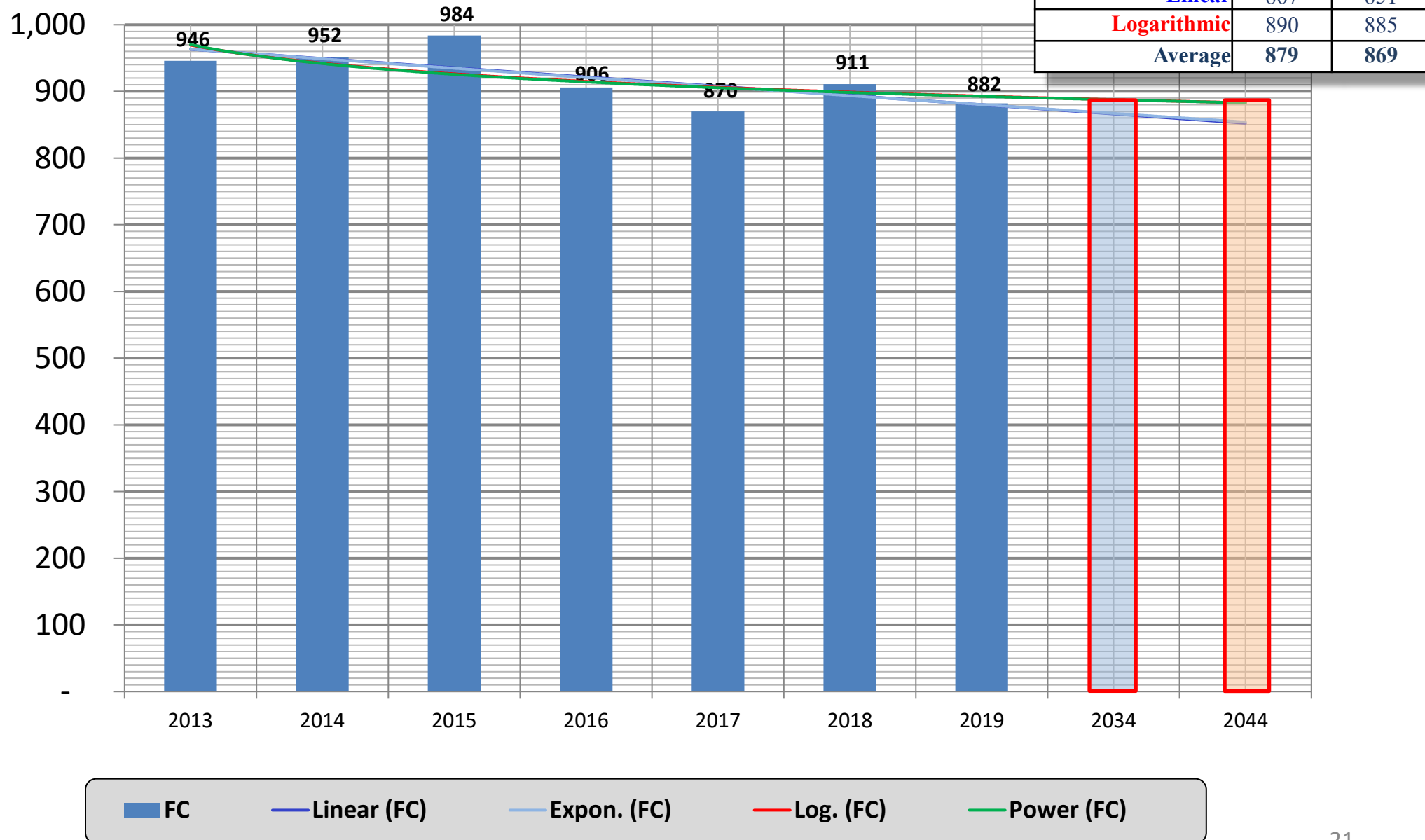
Felony and Criminal Caseload Model 1: 2013 - 2023

Felony and Criminal Caseload
Projection Model 1: 2013 - 2023



Felony and Criminal Caseload Model 2: 2013 – 2019

Felony and Criminal Caseload
Projection Model 2: 2013 - 2019



Courts Analytics and Projection Modeling Summary

Projection Model: 1	2034				2044			
	TCL	TFC			TCL	TFC		
Exponential	3,205	729			3,104	708		
Power	3,549	782			3,510	775		
Linear	3,197	727			3,038	705		
Logarithmic	3,558	785			3,521	780		
Average	3,377	756			3,293	742		
Projection Model: 2	2034				2044			
	TCL	TFC			TCL	TFC		
Exponential	4,175	869			4,094	855		
Power	4,281	890			4,239	885		
Linear	4,178	867			4,098	851		
Logarithmic	4,282	890			4,240	885		
Average	4,229	879			4,168	869		
Terminology:					2034 Planning Model (TCL)			
TCL: Total Courts Caseload					2044 Planning Model (TFC)			
TFC: Total Felony and Criminal Caseload					Low			
				(1).	Mean			
					High			
General Notes:				Notes:				
1. Historic Data and Projection Modeling Suggests a Descending Court Caseload Trend.				(1). Mean				
				Projection	2034	2044	Average of High and Low Projection Models	
2. Historic Peaks:		3. Historic Lows:		TCL	3,713	3,603		
a. TCL: 2017 – 4,720		a. TCL: 2023 – 2,906		TFC	803	787		
b. TFC: 2015 - 984		b. TFC: 2023 - 652						

Historic Sheriff's Office and Jail Data

Jail Bookings																					
Year	Total Bookings			Gender %		Total Bookings by Race								Race %							Notes:
	Male	Female	Total	Male	Female	Asian	Black	Hispanic	Indian	Other	White	Unknown	Total	American Indian	Asian	Black	Caucasian/ White	Hispanic	Other	Unknown	
2013	482	139	621	77.6%	22.4%	5	3	1	28	0	584	0	621	0.8%	0.5%	0.2%	4.5%	0.0%	94.0%	0.0%	
2014	487	152	639	76.2%	23.8%	1	16	2	37	1	582	0	639	0.2%	2.5%	0.3%	5.8%	0.2%	91.1%	0.0%	
2015	487	138	625	77.9%	22.1%	0	16	3	27	1	578	0	625	0.0%	2.6%	0.5%	4.3%	0.2%	92.5%	0.0%	
2016	454	172	626	72.5%	27.5%	0	19	2	15	0	590	0	626	0.0%	3.0%	0.3%	2.4%	0.0%	94.2%	0.0%	
2017	491	177	668	73.5%	26.5%	2	17	3	34	1	611	0	668	0.3%	2.5%	0.4%	5.1%	0.1%	91.5%	0.0%	
2018	537	174	711	75.5%	24.5%	1	20	2	25	1	662	0	711	0.1%	2.8%	0.3%	3.5%	0.1%	93.1%	0.0%	
2019	531	188	719	73.9%	26.1%	5	19	4	29	0	662	0	719	0.7%	2.6%	0.6%	4.0%	0.0%	92.1%	0.0%	
2020	364	124	488	74.6%	25.4%	2	19	0	15	1	451	0	488	0.4%	3.9%	0.0%	3.1%	0.2%	92.4%	0.0%	
2021	351	130	481	73.0%	27.0%	0	16	0	13	2	444	6	481	0.0%	3.3%	0.0%	2.7%	0.4%	92.3%	1.2%	
2022	413	182	595	69.4%	30.6%	0	23	2	11	1	536	22	595	0.0%	3.9%	0.3%	1.8%	0.2%	90.1%	3.7%	
2023	401	141	542	74.0%	26.0%	1	13	2	14	0	477	35	542	0.2%	2.4%	0.4%	2.6%	0.0%	88.0%	6.5%	
2013-2023 Annual Average			610	74.4%	25.6%	2	16	2	23	1	562	6	610	0.2%	2.7%	0.3%	3.6%	0.1%	91.9%	1.0%	
2013-2019 Annual Average			658	75.3%	24.7%	2	16	2	28	1	610	-	658	0.3%	2.4%	0.4%	4.2%	0.1%	92.6%	0.0%	
2020-2023 Annual Average			527	72.7%	27.3%	1	18	1	13	1	477	16	527	0.1%	3.4%	0.2%	2.6%	0.2%	90.7%	2.9%	
2013-2023 Daily Average			1.7	0.20%	0.07%	0.00	0.05	0.01	0.06	0.00	1.54	0.02	1.7	0.00%	0.01%	0.00%	0.01%	0.00%	0.25%	0.00%	
2013-2019 Daily Average			1.8	0.21%	0.07%	0.01	0.04	0.01	0.08	0.00	1.67	0.00	1.8	0.00%	0.01%	0.00%	0.01%	0.00%	0.25%	0.00%	
2020-2023 Daily Average			1.4	0.20%	0.07%	0.00	0.05	0.00	0.04	0.00	1.31	0.04	1.4	0.00%	0.01%	0.00%	0.01%	0.00%	0.25%	0.01%	
Notes:																					
Average Daily Population (AP)										Average Length of Stay (ALOS)											
Year	Male			Female			Total	ADP Range		Year	Male				Female				Total	Min.	Max.
	U	S	ADP	U	S	ADP	ADP	Min	Max		Felony	Misd.	Other	Subtotal	Felony	Misd.	Other	Subtotal			
2013	12.47	18.94	31.50	2.57	1.64	4.25	35.75	32	39	2013									20.08	10	44
2014	12.78	15.49	26.58	2.68	2.38	5.08	31.67	12	39	2014									18.17	7	27
2015	15.24	18.76	33.92	1.96	2.84	4.92	38.83	31	44	2015									22.35	12	36
2016	14.65	18.83	33.50	3.66	3.18	6.75	40.25	12	36	2016									25.25	12	36
2017	16.22	19.70	36.08	2.12	3.80	6.00	42.08	37	46	2017									23.58	10	36
2018	16.33	17.85	34.17	4.10	3.09	7.25	41.42	30	47	2018									29.00	14	38
2019	12.91	14.59	27.27	3.12	3.13	6.33	33.50	29	39	2019									15.92	9	22
2020	12.59	9.82	22.92	2.03	27.07	4.58	27.50	9	22	2020									30.08	9.00	46
2021	12.31	3.71	16.02	3.99	1.44	5.43	21.45	14	31	2021											
2022	15.20	3.72	18.92	3.14	1.13	4.27	23.19	13	31	2022											
2023	14.58	1.81	16.39	3.93	1.94	5.87	22.26	13	35	2023											
2013-2023 Avg.			14.12	13.02	27.03	2.96	4.84	5.52	32.54	21.09	2013-2023 Avg.								23.05	10.38	25.91
2013-2019 Avg.			14.37	17.74	31.86	2.76	2.81	5.80	37.64	26.14	2013-2019 Avg.								22.05	10.57	34.14

Historic Sheriff's Office and Jail Data

Year		Jail Bookings By Age Group										
		Male	Female	Total	Under 18	18-24	25-34	35-44	45-54	55-64	Above 65	Total
	2013	482	139	621	7	206	219	92	64	24	9	621
	2014	487	152	639	12	183	211	114	82	32	5	639
	2015	487	138	625	8	138	219	135	84	26	15	625
	2016	454	172	626	1	147	248	107	77	38	8	626
	2017	491	177	668	4	142	218	150	101	44	9	668
	2018	537	174	711	9	143	265	170	77	33	14	711
	2019	531	188	719	5	130	265	175	94	41	9	719
	2020	364	124	488	1	102	156	126	63	35	5	488
	2021	351	130	481	6	60	159	147	74	26	9	481
	2022	413	182	595	0	90	201	188	80	29	7	595
	2023	401	141	542	0	95	158	155	85	33	16	542
	2013-2023 Annual Average	454	156	610	5	131	211	142	80	33	10	610
	2013-2019 Annual Average	496	163	658	7	156	235	135	83	34	10	658

Year		Gender			Jail Bookings by Crime Class															Total	
					Felony			Misdemeanor			Civil			Federal			Other				
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
	2013	482	139	621	109	27	136	369	111	480	4	1	5	0	0	0	0	0	0	0	621
	2014	487	152	639	115	34	149	372	118	490	0	0	0	0	0	0	0	0	0	0	639
	2015	487	138	625	124	29	153	363	109	472	0	0	0	0	0	0	0	0	0	0	625
	2016	454	172	626	112	50	162	339	123	462	2	0	2	0	0	0	0	0	0	0	626
	2017	491	177	668	100	31	131	391	146	537	0	0	0	0	0	0	0	0	0	0	668
	2018	537	174	711	134	51	185	403	123	526	0	0	0	0	0	0	0	0	0	0	711
	2019	531	188	719	141	38	179	390	150	540	0	0	0	0	0	0	0	0	0	0	719
	2020	364	124	488	91	31	122	273	93	366	0	0	0	0	0	0	0	0	0	0	488
	2021	351	130	481	65	25	90	274	101	375	0	0	0	0	0	0	12	4	16	481	
	2022	413	182	595	71	24	95	338	156	494	0	0	0	0	0	0	4	2	6	595	
	2023	401	141	542	51	20	71	348	121	469	1	0	1	0	0	0	1	0	1	542	
	2013-2023 Annual Average	454.36	156.09	610.45	101.18	32.73	133.91	350.91	122.82	473.73	0.64	0.09	0.73	0.00	0.00	0.00	1.55	0.55	2.09	610	
	2013-2019 Annual Average	495.571	162.86	658.43	119.29	37.14	156.43	375.29	125.71	501.00	0.86	0.14	1.00	0.00	0.00	0.00	0.00	0.00	0.00	658	

Year	Calls for Service and Arrests	Call of Services By Mode	
		DATE RANGE: 1/1/2021 - 12/31/2021	
		Mode	Number of Calls
2013	639	911 Cell	219
2014	711	911 Land	32
2015	630	911 Text	10
2016	672	911 VOP	0
2017	700	Email	1
2018	653	Integration	0
2019	640	Jail	12
2020	589	LEIN	1
2021	3,070	Lobby	65
2022	2,842	Officer	2585
2023	2,811	Radio	75
2013-2023 Avg.	654	TX Fax	1
2013-2019 Avg.	664	TX Line 1	73
		TX Line 2	0
		TX Line 3	0
		TX Line 4	0
		TX Line 5	0
		TOTAL	3074
		Example 2021 - 2023 Calls for Service Components	

Historic Sheriff's Office and Jail Data

Month	2013									Month	2014								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	331	566	49	37	983	29	3	32	26	January	317	592	15	70	994	29	3	32	27
February	374	562	55	56	1,047	33	4	37	10	February	281	432	42	56	811	25	4	29	20
March	392	600	64	69	1,125	33	4	37	21	March	339	389	16	125	869	23	4	27	24
April	400	542	115	42	1,099	31	5	36	24	April	448	377	44	93	962	28	5	33	7
May	390	513	113	97	1,113	29	7	36	13	May	489	414	47	54	1,004	9	3	12	17
June	456	498	121	93	1,168	32	7	39	10	June	463	416	121	23	1,023	29	5	34	24
July	449	564	115	64	1,192	32	6	38	30	July	432	399	98	73	1,002	27	5	32	22
Augst	421	476	50	67	1,014	29	4	33	19	Augst	444	467	84	69	1,064	29	5	34	17
September	428	539	105	0	1,072	32	4	36	12	September	311	548	93	63	1,015	29	5	34	12
October	436	636	101	28	1,201	35	4	39	19	October	351	543	139	55	1,088	29	6	35	12
November	264	743	29	36	1,072	34	2	36	44	November	390	560	124	77	1,151	32	7	39	19
December	210	675	22	9	916	29	1	30	13	December	398	518	155	109	1,180	30	9	39	17
Subtotal	4,551	6,914	939	598	13,002	378	51	429	241	Subtotal	4,663	5,655	978	867	12,163	319	61	380	218
Annual Average	12.47	18.94	2.57	1.64	35.62	31.50	4.25	35.75	20.08	Annual Average	12.78	15.49	2.68	2.38	33.32	26.58	5.08	31.67	18.17
Ratio	35%	53%	7%	5%	100%	88%	12%	100%		Ratio	38%	46%	8%	7%	100%	84%	16%	100%	
Month	2015									Month	2016								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	379	593	131	142	1,245	31	8	39	36	January	508	595	119	58	1,280	36	5	41	30
February	336	529	93	177	1,135	31	10	41	26	February	426	591	116	68	1,201	35	6	41	36
March	382	514	49	221	1,166	29	9	38	25	March	291	548	110	105	1,054	27	7	34	24
April	434	552	4	134	1,124	33	5	38	19	April	483	462	143	101	1,189	32	8	40	15
May	389	607	14	55	1,065	32	2	34	31	May	530	520	161	132	1,343	34	9	43	25
June	417	447	25	46	935	29	2	31	13	June	427	592	121	77	1,217	34	7	41	21
July	665	421	58	33	1,177	35	3	38	19	July	400	559	86	83	1,128	31	5	36	17
Augst	641	486	37	41	1,205	36	3	39	32	Augst	339	739	98	76	1,252	35	6	41	25
September	485	610	97	65	1,257	36	5	41	12	September	431	623	148	33	1,235	35	6	41	31
October	428	691	90	24	1,233	36	4	40	12	October	369	626	140	74	1,209	32	7	39	12
November	461	697	67	39	1,264	39	4	43	14	November	504	593	52	158	1,307	37	7	44	36
December	545	699	51	61	1,356	40	4	44	29	December	639	426	42	196	1,303	34	8	42	31
Subtotal	5,562	6,846	716	1,038	14,162	407	59	466	268	Subtotal	5,347	6,874	1,336	1,161	14,718	402	81	483	303
Annual Average	15.24	18.76	1.96	2.84	38.80	33.92	4.92	38.83	22.33	Annual Average	14.65	18.83	3.66	3.18	40.32	33.50	6.75	40.25	25.25
Ratio	39%	48%	5%	7%	100%	87%	13%	100%		Ratio	36%	47%	9%	8%	100%	83%	17%	100%	
Month	2017									Month	2018								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	712	353	30	137	1,232	34	5	39	23	January	507	511	143	135	1,296	33	9	42	29
February	712	406	48	107	1,273	40	6	46	20	February	483	327	107	102	1,019	29	7	36	14
March	697	589	80	83	1,449	41	5	46	19	March	460	611	118	95	1,284	35	7	42	15
April	726	582	21	85	1,414	44	4	48	27	April	628	534	133	63	1,358	39	7	46	16
May	495	647	11	70	1,223	37	3	40	27	May	618	672	122	17	1,429	42	4	46	17
June	393	623	74	63	1,153	34	5	39	36	June	482	688	193	38	1,401	39	8	47	28
July	409	581	72	70	1,132	32	5	37	25	July	462	665	207	72	1,406	36	9	45	15

Historic Sheriff's Office and Jail Data

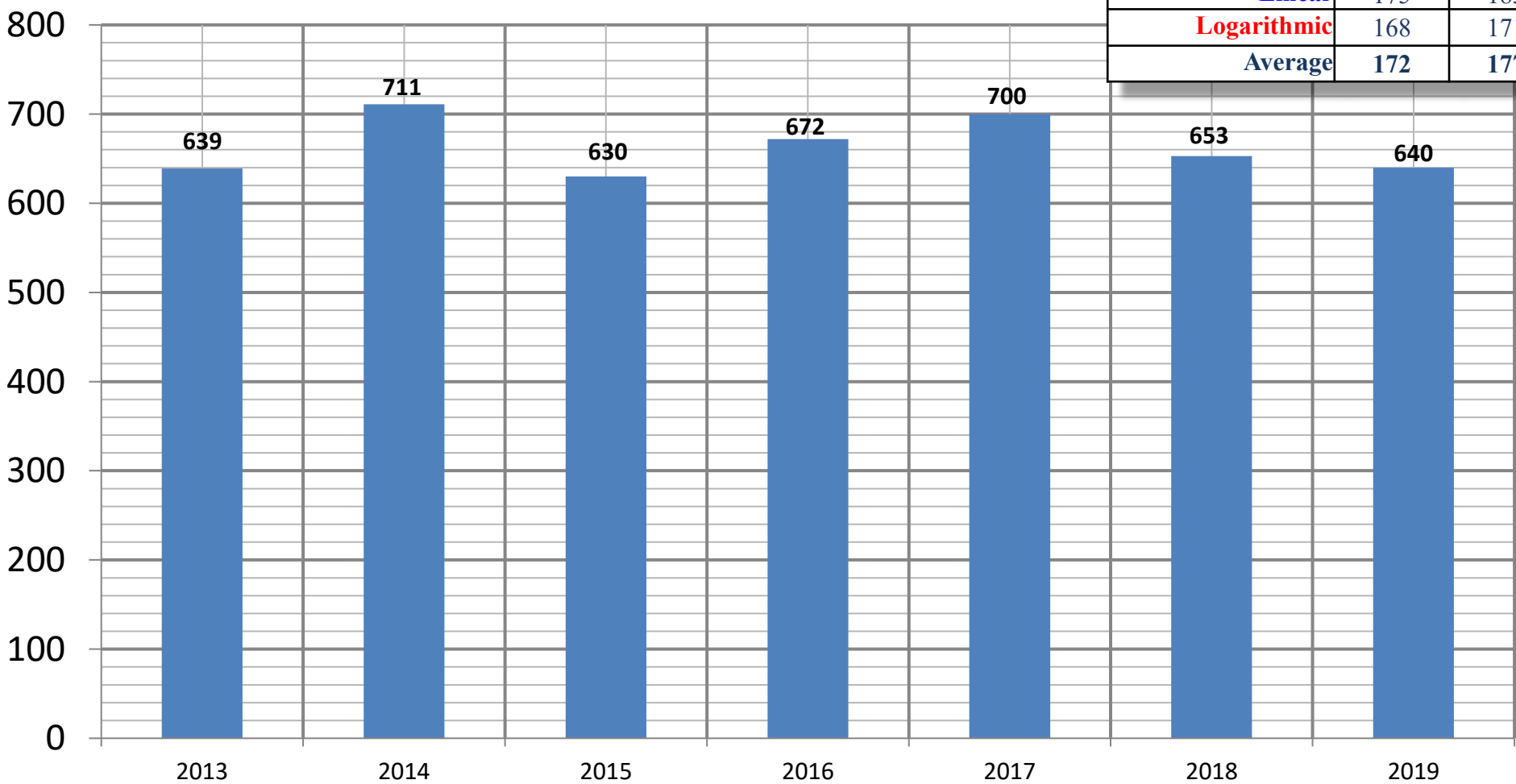
Month	2013									Month	2014								
	Male		Female		Total	ADP		Total	ALOS Days		Male		Female		Total	ADP		Total	ALOS Days
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	331	566	49	37	983	29	3	32	26	January	317	592	15	70	994	29	3	32	27
February	374	562	55	56	1,047	33	4	37	10	February	281	432	42	56	811	25	4	29	20
March	392	600	64	69	1,125	33	4	37	21	March	339	389	16	125	869	23	4	27	24
April	400	542	115	42	1,099	31	5	36	24	April	448	377	44	93	962	28	5	33	7
May	390	513	113	97	1,113	29	7	36	13	May	489	414	47	54	1,004	9	3	12	17
June	456	498	121	93	1,168	32	7	39	10	June	463	416	121	23	1,023	29	5	34	24
July	449	564	115	64	1,192	32	6	38	30	July	432	399	98	73	1,002	27	5	32	22
August	421	476	50	67	1,014	29	4	33	19	August	444	467	84	69	1,064	29	5	34	17
September	428	539	105	0	1,072	32	4	36	12	September	311	548	93	63	1,015	29	5	34	12
October	436	636	101	28	1,201	35	4	39	19	October	351	543	139	55	1,088	29	6	35	12
November	264	743	29	36	1,072	34	2	36	44	November	390	560	124	77	1,151	32	7	39	19
December	210	675	22	9	916	29	1	30	13	December	398	518	155	109	1,180	30	9	39	17
Subtotal	4,551	6,914	939	598	13,002	378	51	429	241	Subtotal	4,663	5,655	978	867	12,163	319	61	380	218
Annual Average	12.47	18.94	2.57	1.64	35.62	31.50	4.25	35.75	20.08	Annual Average	12.78	15.49	2.68	2.38	33.32	26.58	5.08	31.67	18.17
Ratio	35%	53%	7%	5%	100%	88%	12%	100%		Ratio	38%	46%	8%	7%	100%	84%	16%	100%	
Month	2015									Month	2016								
	Male		Female		Total	ADP		Total	ALOS Days		Male		Female		Total	ADP		Total	ALOS Days
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	379	593	131	142	1,245	31	8	39	36	January	508	595	119	58	1,280	36	5	41	30
February	336	529	93	177	1,135	31	10	41	26	February	426	591	116	68	1,201	35	6	41	36
March	382	514	49	221	1,166	29	9	38	25	March	291	548	110	105	1,054	27	7	34	24
April	434	552	4	134	1,124	33	5	38	19	April	483	462	143	101	1,189	32	8	40	15
May	389	607	14	55	1,065	32	2	34	31	May	530	520	161	132	1,343	34	9	43	25
June	417	447	25	46	935	29	2	31	13	June	427	592	121	77	1,217	34	7	41	21
July	665	421	58	33	1,177	35	3	38	19	July	400	559	86	83	1,128	31	5	36	17
August	641	486	37	41	1,205	36	3	39	32	August	339	739	98	76	1,252	35	6	41	25
September	485	610	97	65	1,257	36	5	41	12	September	431	623	148	33	1,235	35	6	41	31
October	428	691	90	24	1,233	36	4	40	12	October	369	626	140	74	1,209	32	7	39	12
November	461	697	67	39	1,264	39	4	43	14	November	504	593	52	158	1,307	37	7	44	36
December	545	699	51	61	1,356	40	4	44	29	December	639	426	42	196	1,303	34	8	42	31
Subtotal	5,562	6,846	716	1,038	14,162	407	59	466	268	Subtotal	5,347	6,874	1,336	1,161	14,718	402	81	483	303
Annual Average	15.24	18.76	1.96	2.84	38.80	33.92	4.92	38.83	22.33	Annual Average	14.65	18.83	3.66	3.18	40.32	33.50	6.75	40.25	25.25
Ratio	39%	48%	5%	7%	100%	87%	13%	100%		Ratio	36%	47%	9%	8%	100%	83%	17%	100%	
Month	2017									Month	2018								
	Male		Female		Total	ADP		Total	ALOS Days		Male		Female		Total	ADP		Total	ALOS Days
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	712	353	30	137	1,232	34	5	39	23	January	507	511	143	135	1,296	33	9	42	29
February	712	406	48	107	1,273	40	6	46	20	February	483	327	107	102	1,019	29	7	36	14
March	697	589	80	83	1,449	41	5	46	19	March	460	611	118	95	1,284	35	7	42	15
April	726	582	21	85	1,414	44	4	48	27	April	628	534	133	63	1,358	39	7	46	16
May	495	647	11	70	1,223	37	3	40	27	May	618	672	122	17	1,429	42	4	46	17
June	393	623	74	63	1,153	34	5	39	36	June	482	688	193	38	1,401	39	8	47	28
July	409	581	72	70	1,132	32	5	37	25	July	462	665	207	72	1,406	36	9	45	15
August	322	660	88	124	1,194	32	7	39	20	August	525	623	169	120	1,437	37	9	46	19
September	326	710	68	154	1,258	35	7	42	10	September	574	622	54	171	1,421	40	8	48	25
October	423	716	35	221	1,395	37	8	45	24	October	410	495	103	119	1,127	29	7	36	856
November	314	692	128	135	1,269	34	9	43	25	November	410	412	72	99	993	27	6	33	23
December	393	632	118	138	1,281	33	8	41	27	December	400	357	75	97	929	24	6	30	36
Subtotal	5,922	7,191	773	1,387	15,273	433	72	505	283	Subtotal	5,959	6,517	1,496	1,128	15,100	410	87	497	1,093
Annual Average	16.22	19.70	2.12	3.80	41.84	36.08	6.00	42.08	23.58	Annual Average	16.33	17.85	4.10	3.09	41.37	34.17	7.25	41.42	91.08
Ratio	39%	47%	5%	9%	100%	86%	14%	100%		Ratio	39%	43%	10%	7%	100%	82%	18%	100%	

Historic Sheriff's Office and Jail Data

Month	2019									Month	2020								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January	561	288	92	84	1,025	25	6	31	22	January	645	378	185	62	1,270	33	8	41	23
February	470	326	122	51	969	28	6	34	16	February	449	392	63	151	1,055	29	7	36	23
March	393	392	118	45	948	25	5	30	9	March	361	390	91	95	937	24	6	30	34
April	372	382	148	90	992	25	8	33	14	April	395	239	86	43	763	21	4	25	23
May	312	415	69	187	983	23	8	31	19	May	340	211	50	89	690	18	4	22	22
June	469	498	24	176	1,167	32	7	39	13	June	324	312	39	65	740	18	3	21	12
July	450	514	72	136	1,172	31	7	38	21	July	320	365	77	52	814	22	4	26	13
August	263	670	120	66	1,119	30	6	36	11	August	313	361	65	90	829	22	5	27	15
September	343	571	80	85	1,079	30	6	36	17	September	341	289	56	99	785	21	5	26	15
October	335	412	69	113	929	24	6	30	21	October	526	295	24	84	929	26	3	29	9
November	308	429	86	40	863	25	4	29	10	November	346	231	4	69	650	25	3	28	46
December	436	430	137	71	1,074	28	7	35	18	December	237	122	0	59	418	16	3	19	126
Subtotal	4,712	5,327	1,137	1,144	12,320	326	76	402	191	Subtotal	4,597	3,585	740	958	9,880	275	55	330	361
Annual Average	12.91	14.59	3.12	3.13	33.75	27.17	6.33	33.50	15.92	Annual Average	12.59	9.82	2.03	2.62	27.07	22.92	4.58	27.50	30.08
Ratio	38%	43%	9%	9%	100%	81%	19%	100%		Ratio	47%	36%	7%	10%	100%	83%	17%	100%	
Month	2021									Month	2022								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January										January									
February										February									
March										March									
April										April									
May										May									
June										June									
July										July									
August										August									
September										September									
October										October									
November										November									
December										December									
Subtotal	4,494	1,355	1,457	524	7,830					Subtotal	5,549	1,357	1,146	411	8,463				
Annual Average	12.31	3.71	3.99	1.44	21.45	21.00				Annual Average	15.20	3.72	3.14	1.13	23.19	22.00			
Ratio	57%	17%	19%	7%	100%					Ratio	66%	16%	14%	5%	100%				
Month	2023									Month	2024								
	Male		Female		Total	ADP		Total	ALOS		Male		Female		Total	ADP		Total	ALOS
	U	S	U	S		Male	Female				U	S	U	S		Male	Female		
January										January					-			0	
February										February					-			0	
March										March					-			0	
April										April					-			0	
May										May					-			0	
June										June					-			0	
July										July					-			0	
August										August					-			0	
September										September					-			0	
October										October					-			0	
November										November					-			0	
December										December					-			0	
Subtotal	5,323	660	1,436	707	8,126					Subtotal	-	-	-	-	-	-	-	-	-
Annual Average	14.58	1.81	3.93	1.94	22.26	21.00				Annual Average	0.00	0.00	0.00	0.00	0.00	#DIV/0!	#DIV/0!	0.00	#DIV/0!
Ratio	66%	8%	18%	9%	100%					Ratio	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Historic Data: Sheriff's Office Calls for Service & Arrests

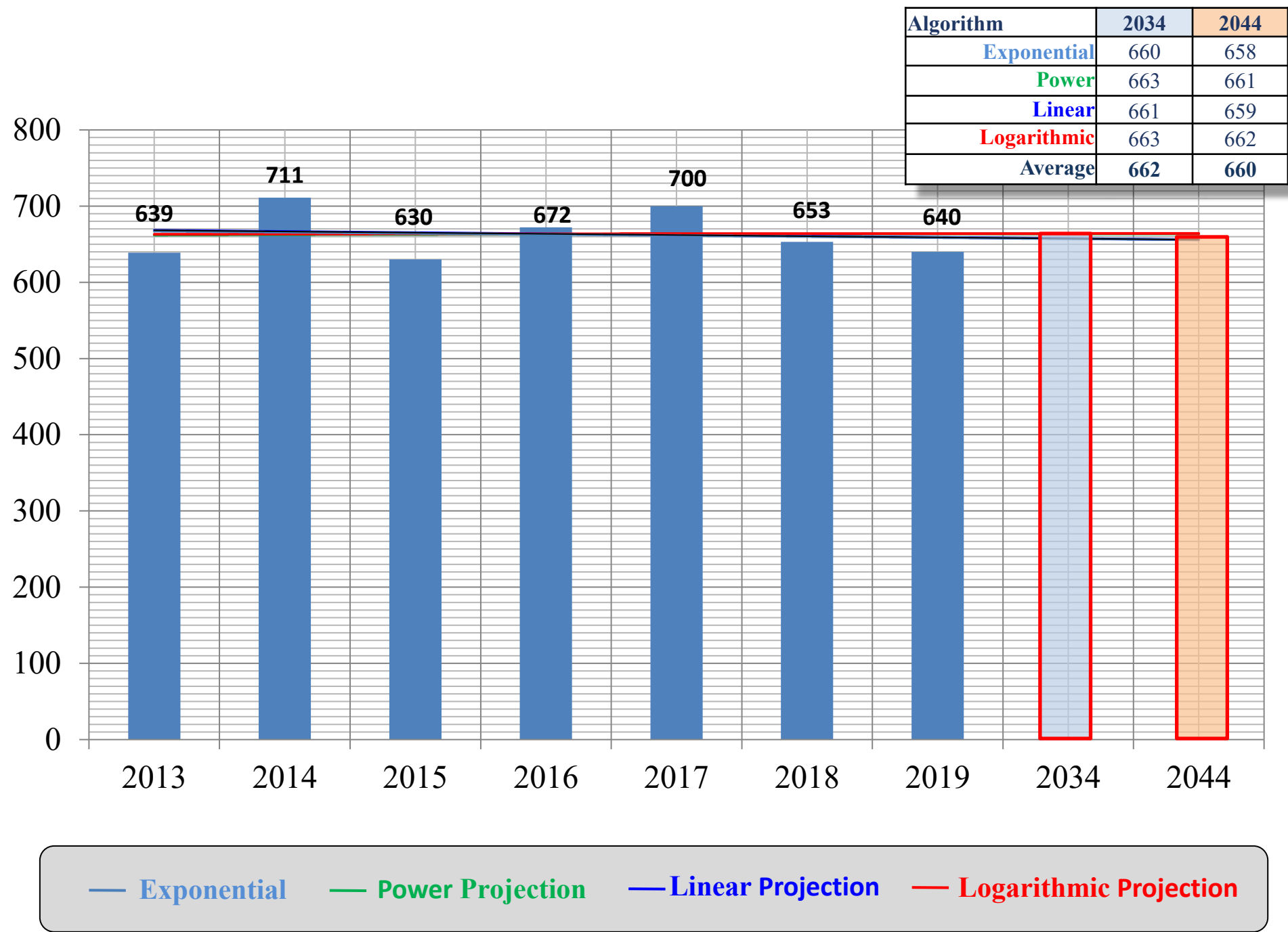
Annual: 2013 - 2019



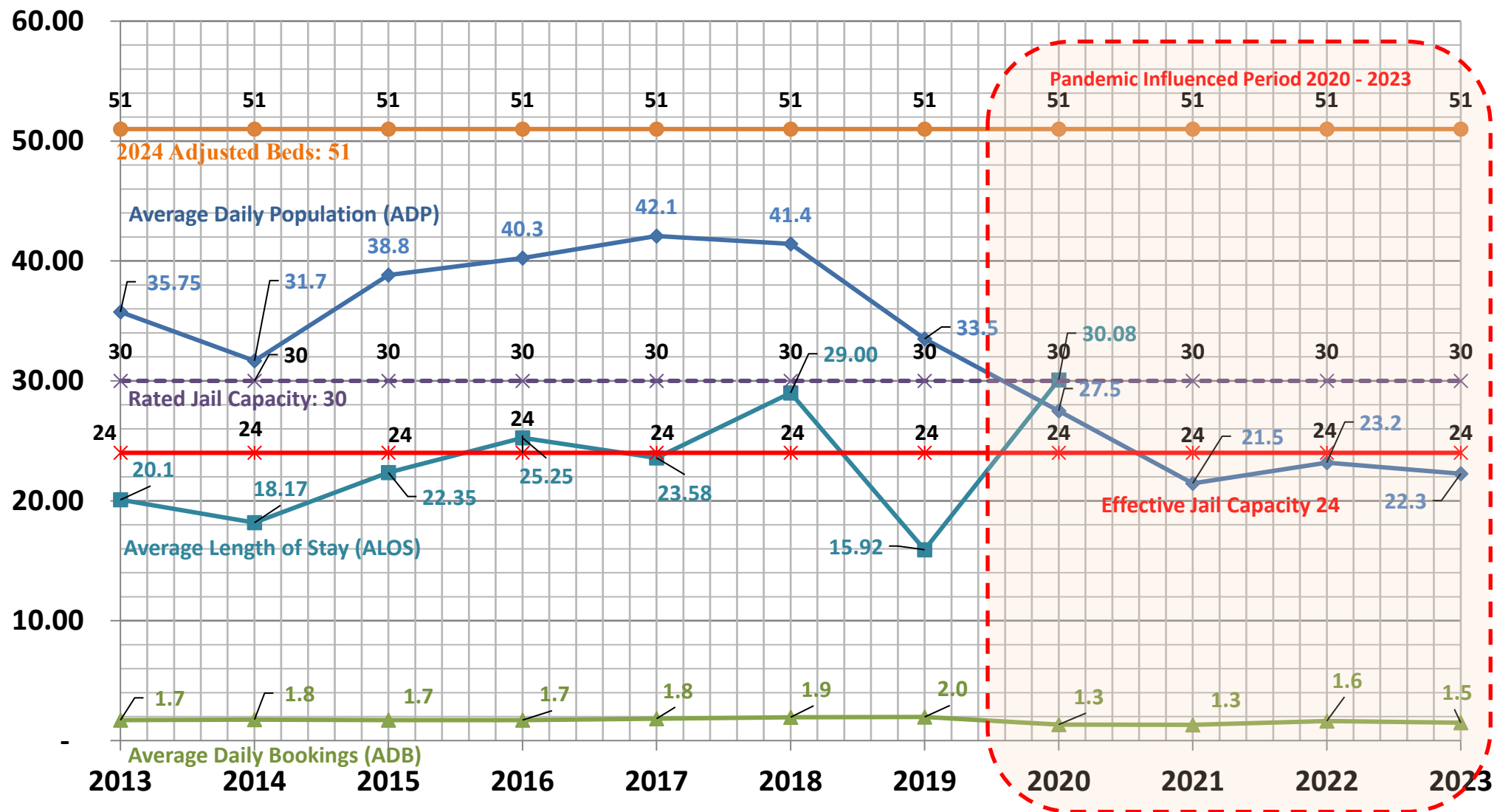
Algorithm	2034	2044
Exponential	176	184
Power	168	171
Linear	175	183
Logarithmic	168	171
Average	172	177

■ Calls For Service & Arrests

Sheriff's Office Calls for Service and Arrests



Historic Jail Data Summary: 2013 – 2023

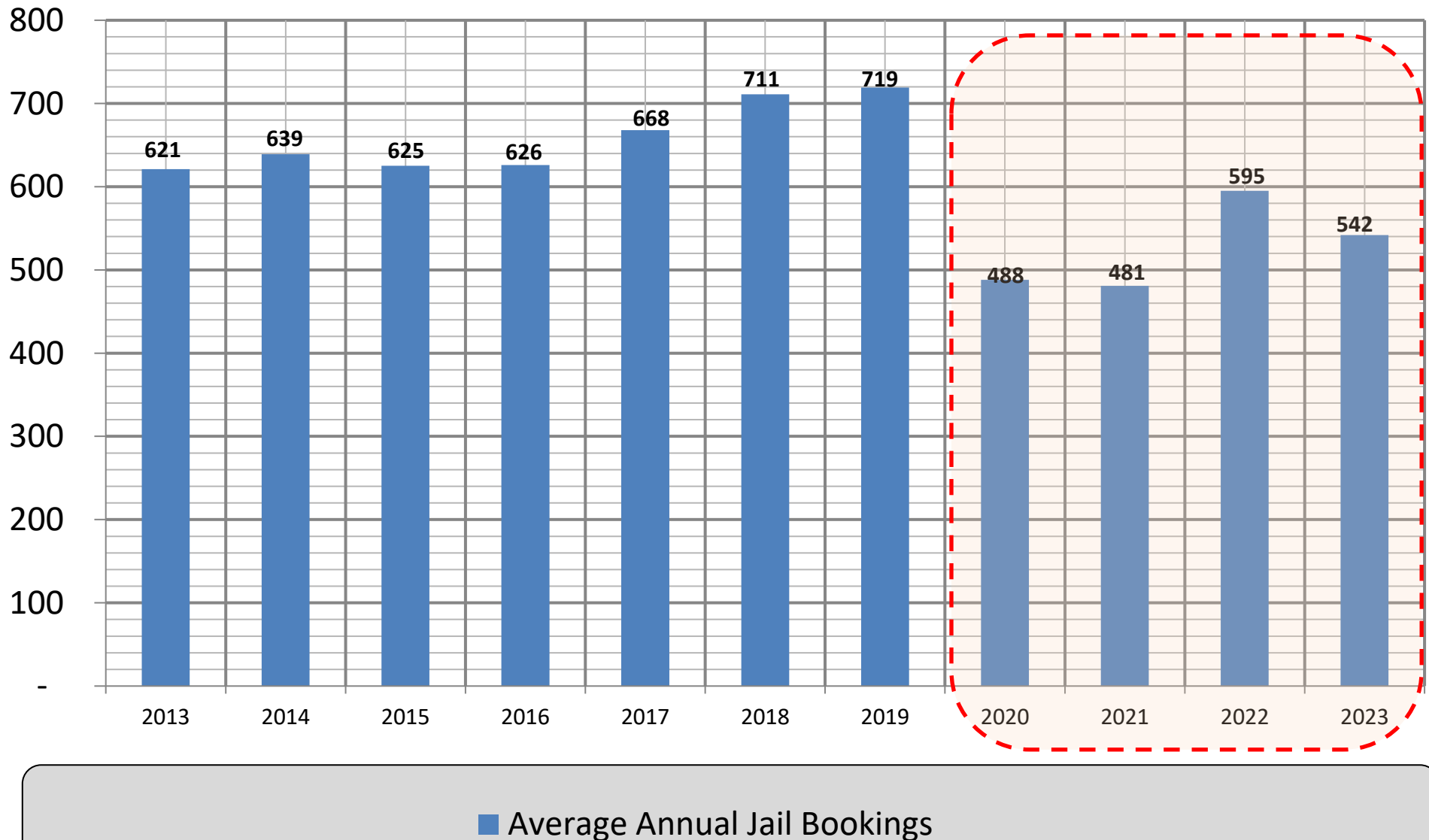


◆ Average Daily Population (ADP) ■ Average Length of Stay (ALOS) ▲ Average Daily Bookings
 ✖ Rated Jail Capacity ✖ Effective Jail Capacity ● Adjusted 2024 capacity

Effective Jail Capacity: 30 Beds Rated Capacity - 20% Classification Factor = 24 Beds
 2024 Adjusted Beds: 50 (ADP 42 + 20% Classification Factor)

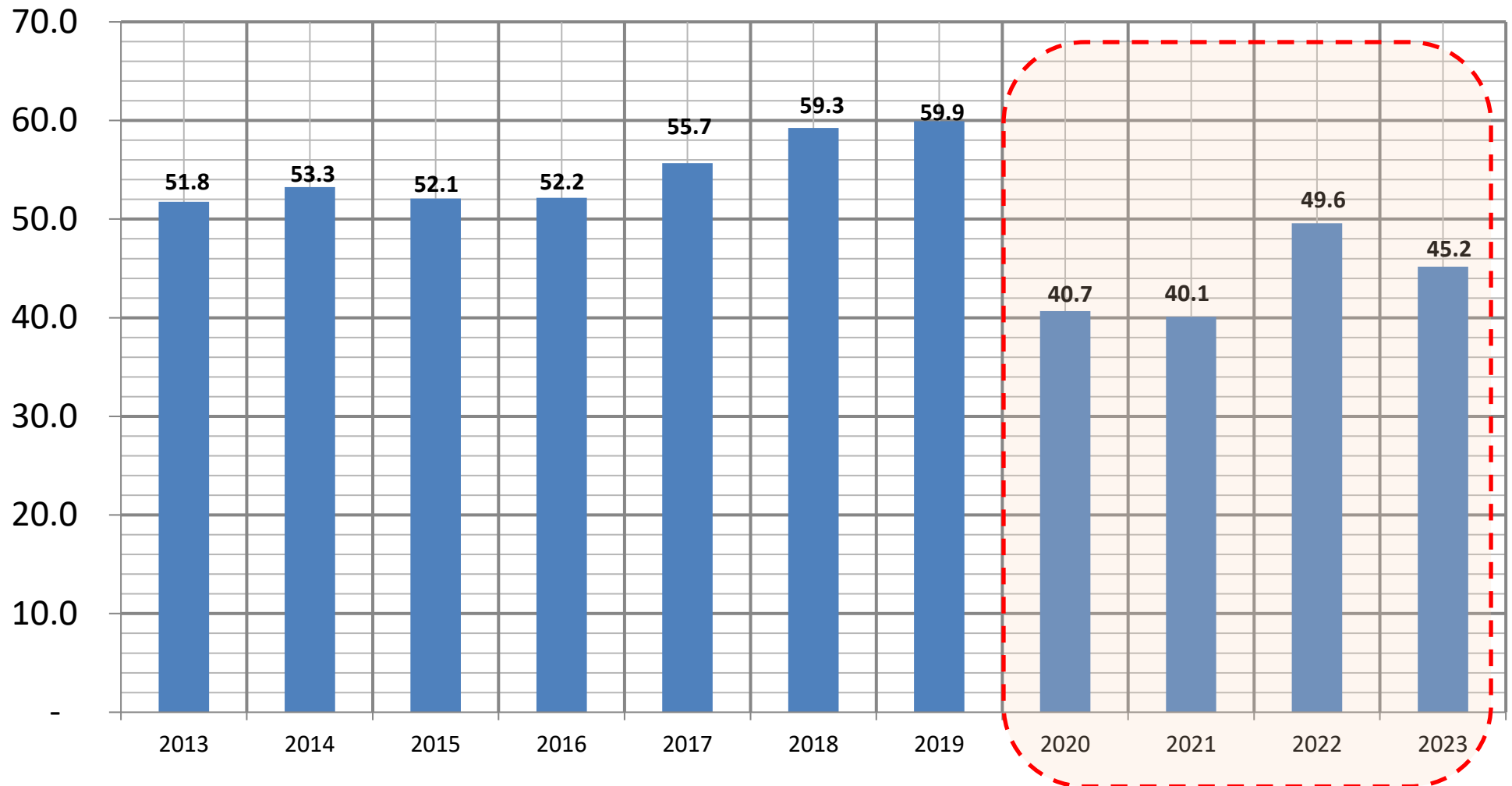
Jail: Historic Average Annual Jail Bookings (AJB)

Historic Average Annual Jail Bookings (AJB): 2013 - 2023



Jail: Historic Average Monthly Jail Bookings (AMB)

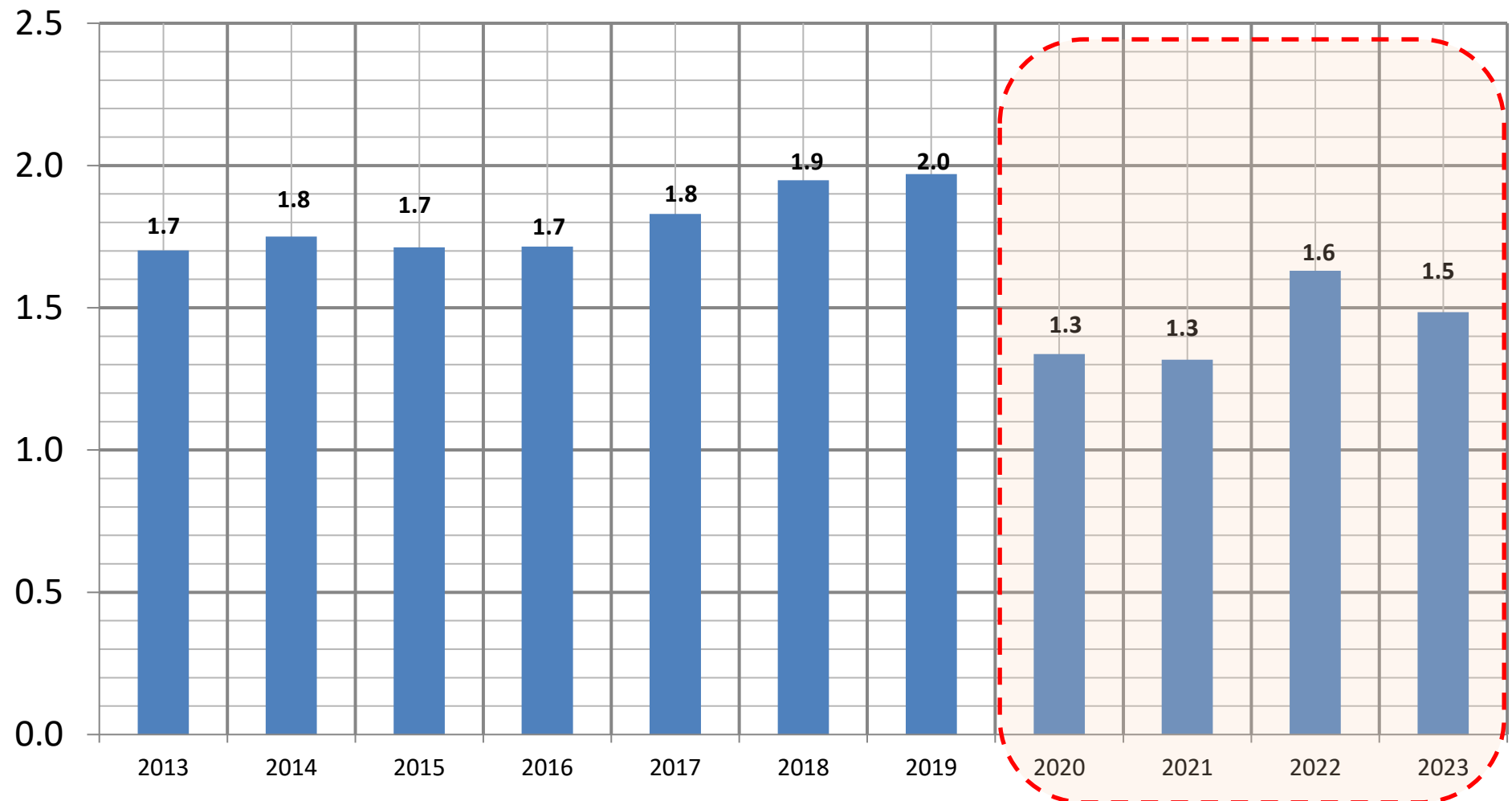
Historical Average Monthly Jail Bookings (AMB): 2013 - 2023



■ Average Monthly Jail Bookings

Jail: Historic Average Daily Jail Bookings (ADB)

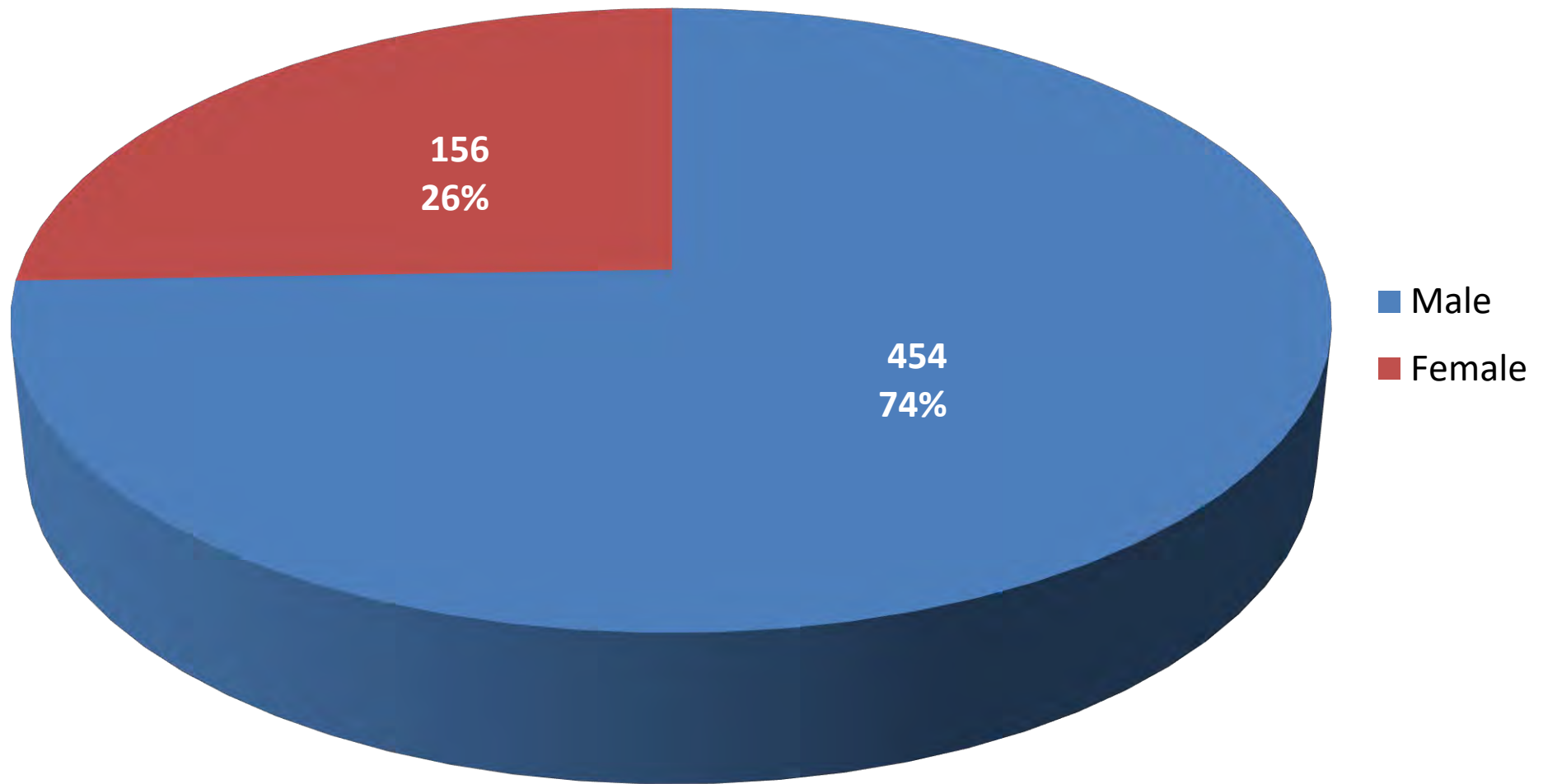
Historic Average Daily Jail Bookings (ADB): 2013 - 2023



■ Average Daily Jail Bookings

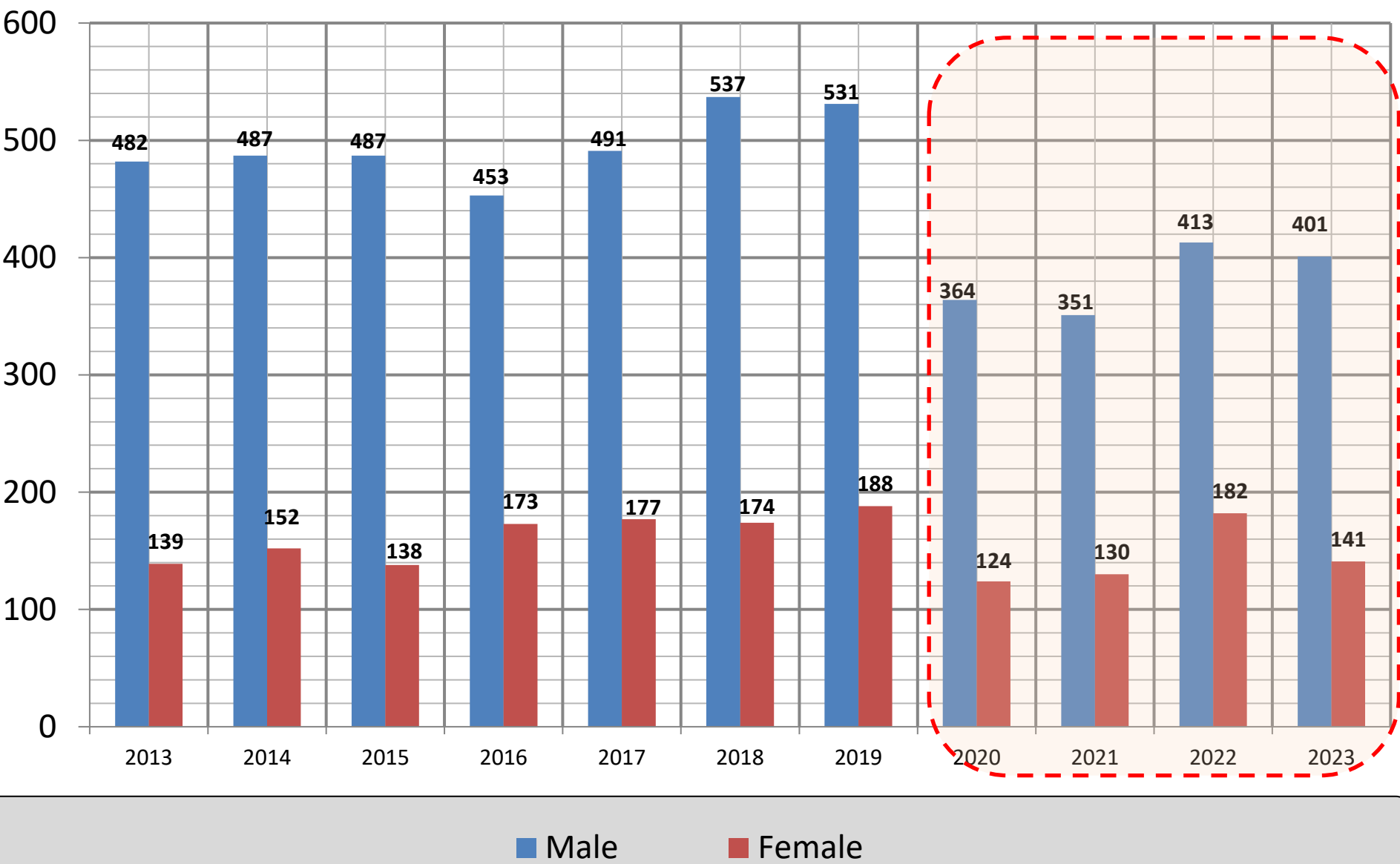
Jail: Historic Average Jail Bookings (AJB) - Gender

Historical Average Jail Bookings (AJB) - Gender: 2013 - 2023



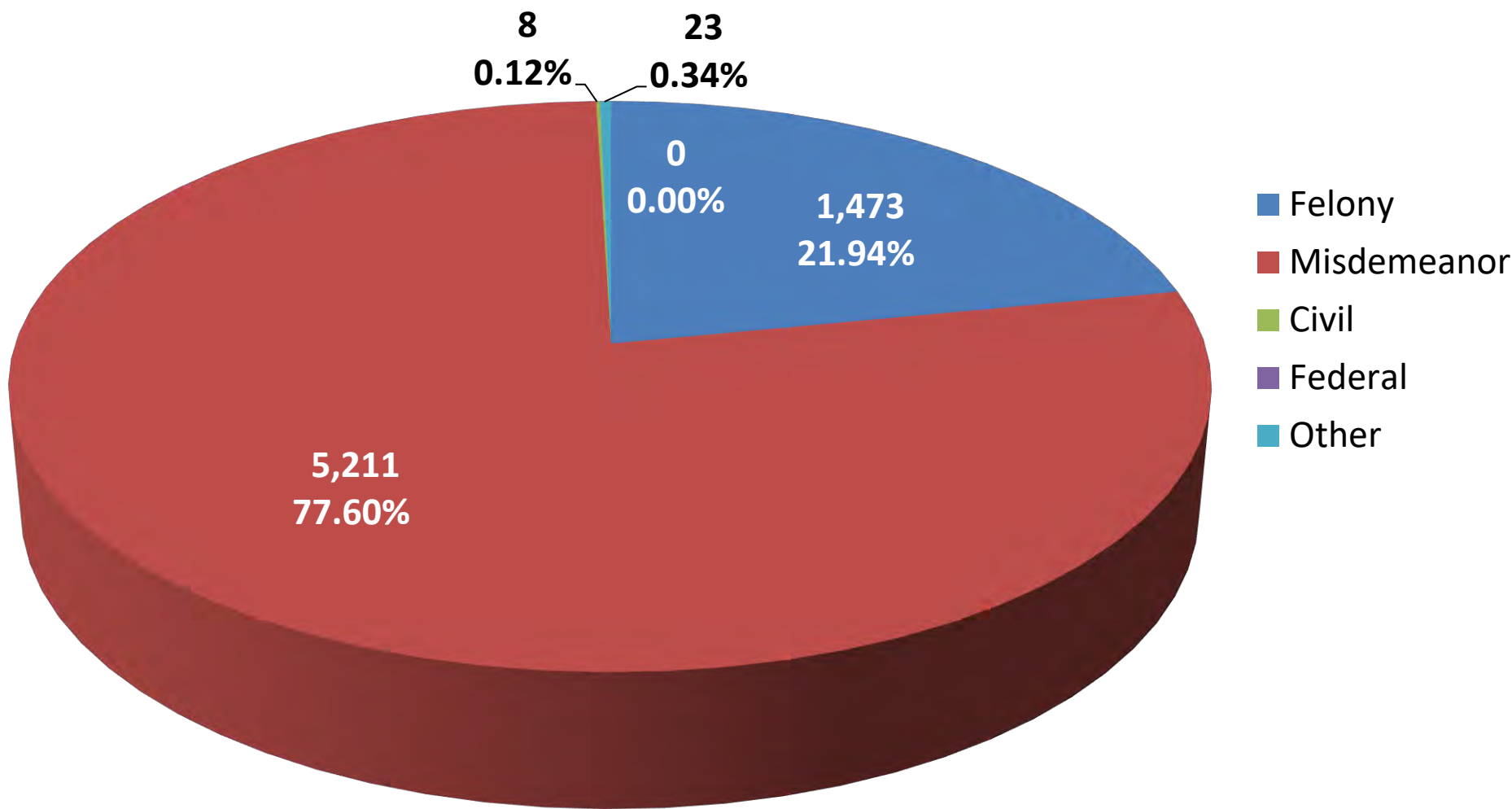
Jail: Historic Crime Type - Gender

Jail: Historic Crime Type - Gender: 2013 - 2023

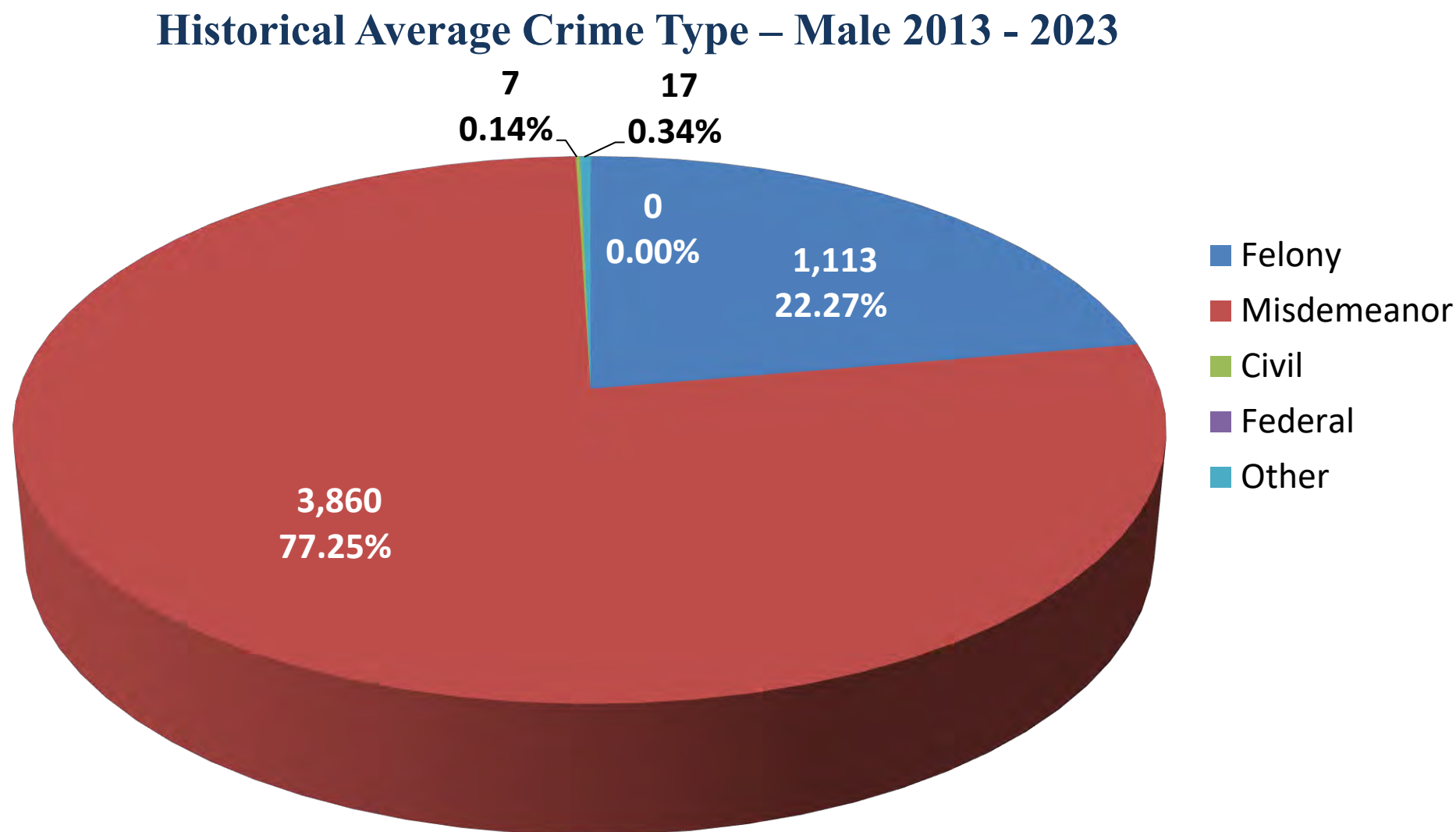


Jail: Historic Average Crime Type – All Gender

Historical Average Crime Type – All Gender 2013 - 2023

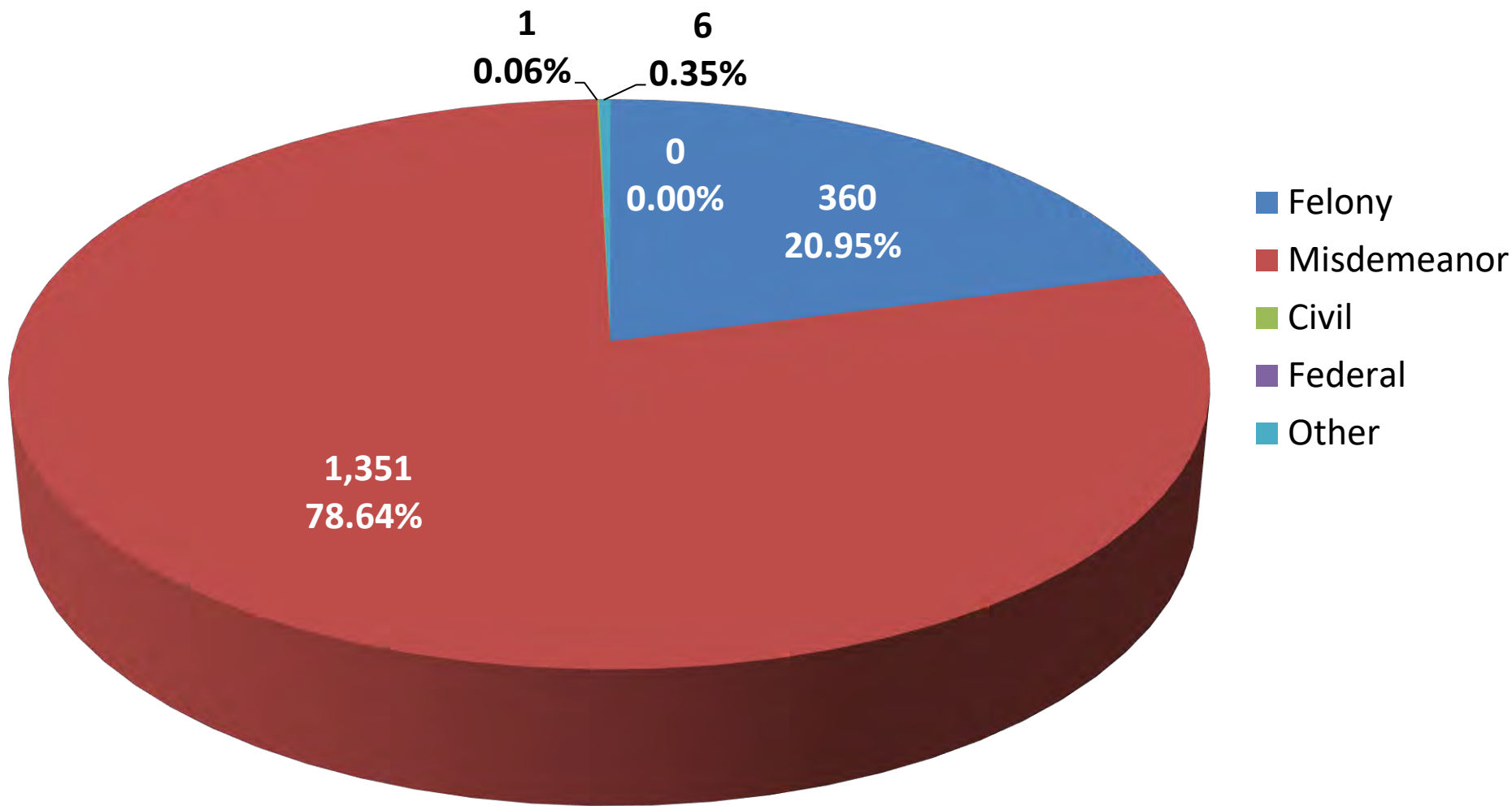


Jail: Historic Average Crime Type - Male



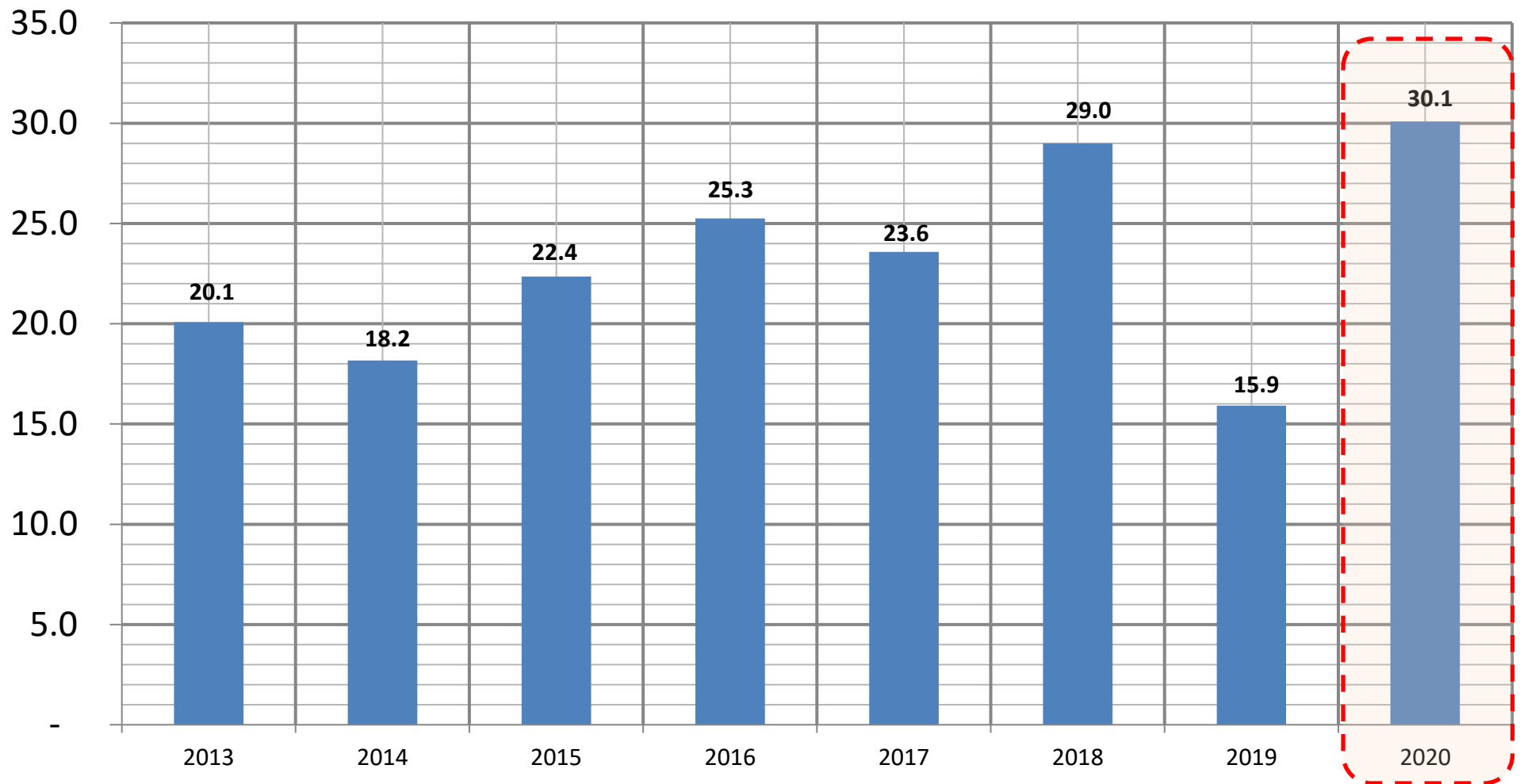
Jail: Historic Average Crime Type - Male

Historical Average Crime Type – Female 2013 - 2023



Jail: Historic Average Length of Stay (ALOS)

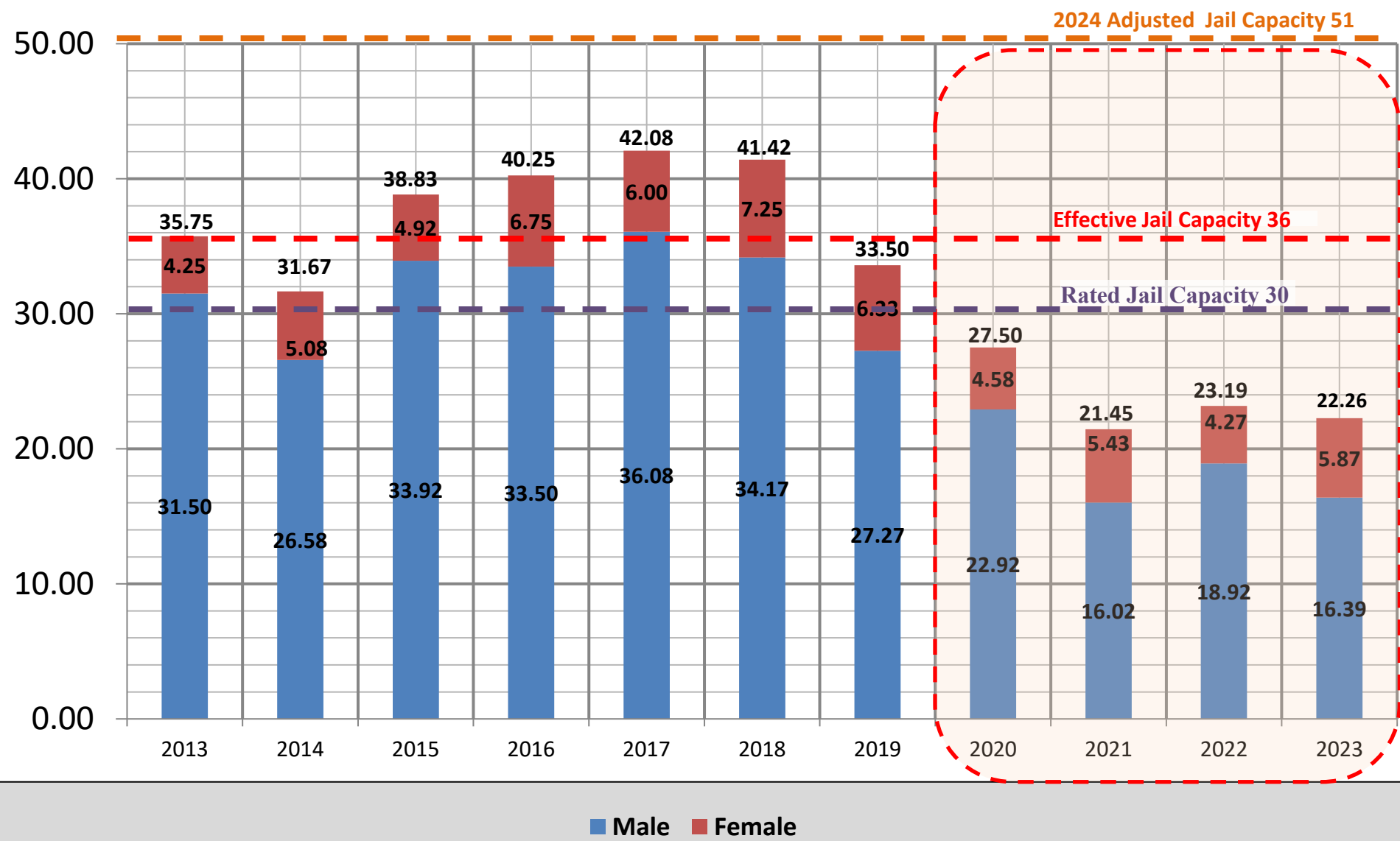
Historic Average Annual Length of Stay (ALOS): 2013 - 2020



■ Average Annual Length of Stay

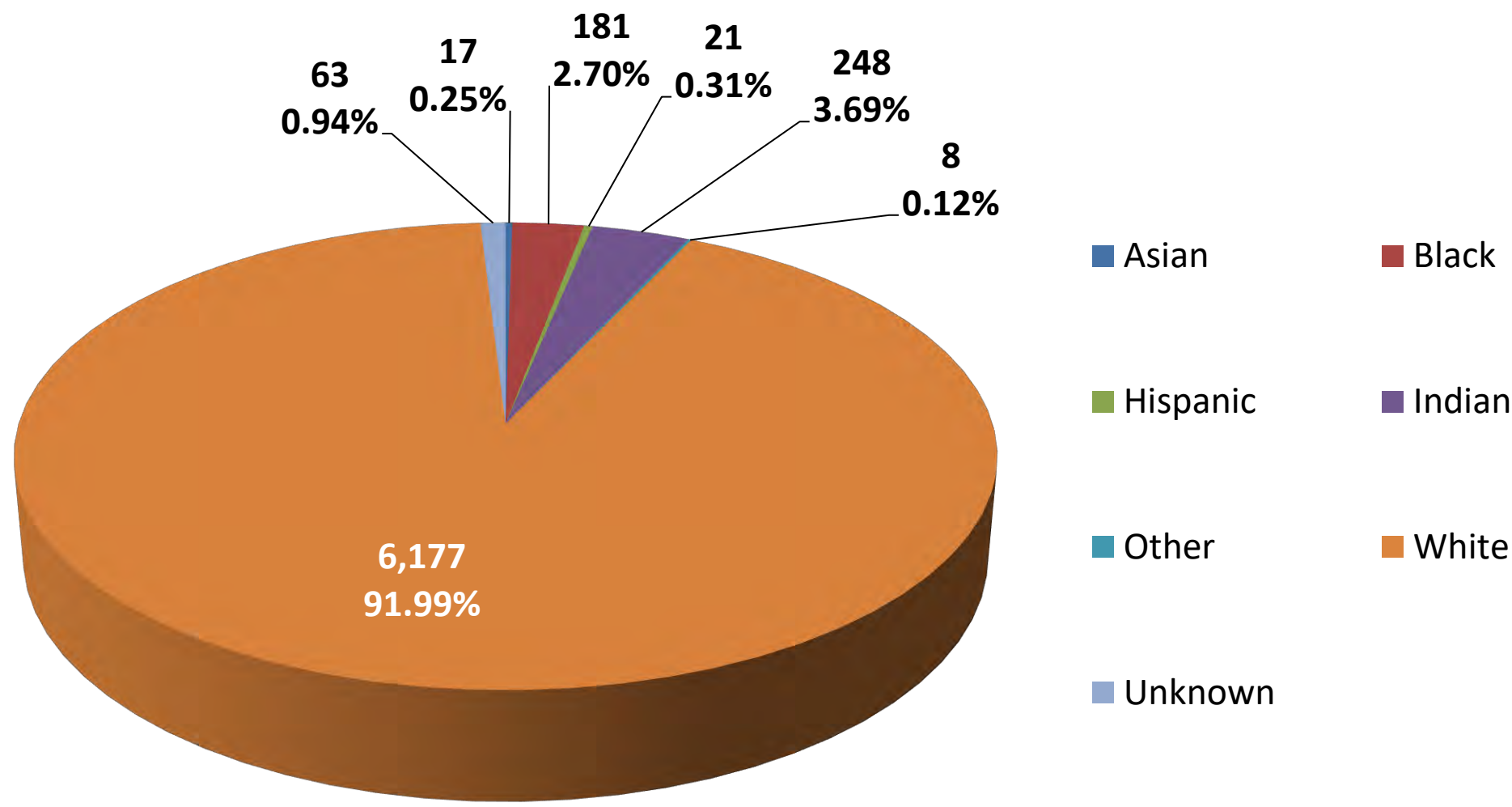
Jail: Historic Average Daily Population (ADP)

Historical Average Daily Population (ADP): 2013 - 2023



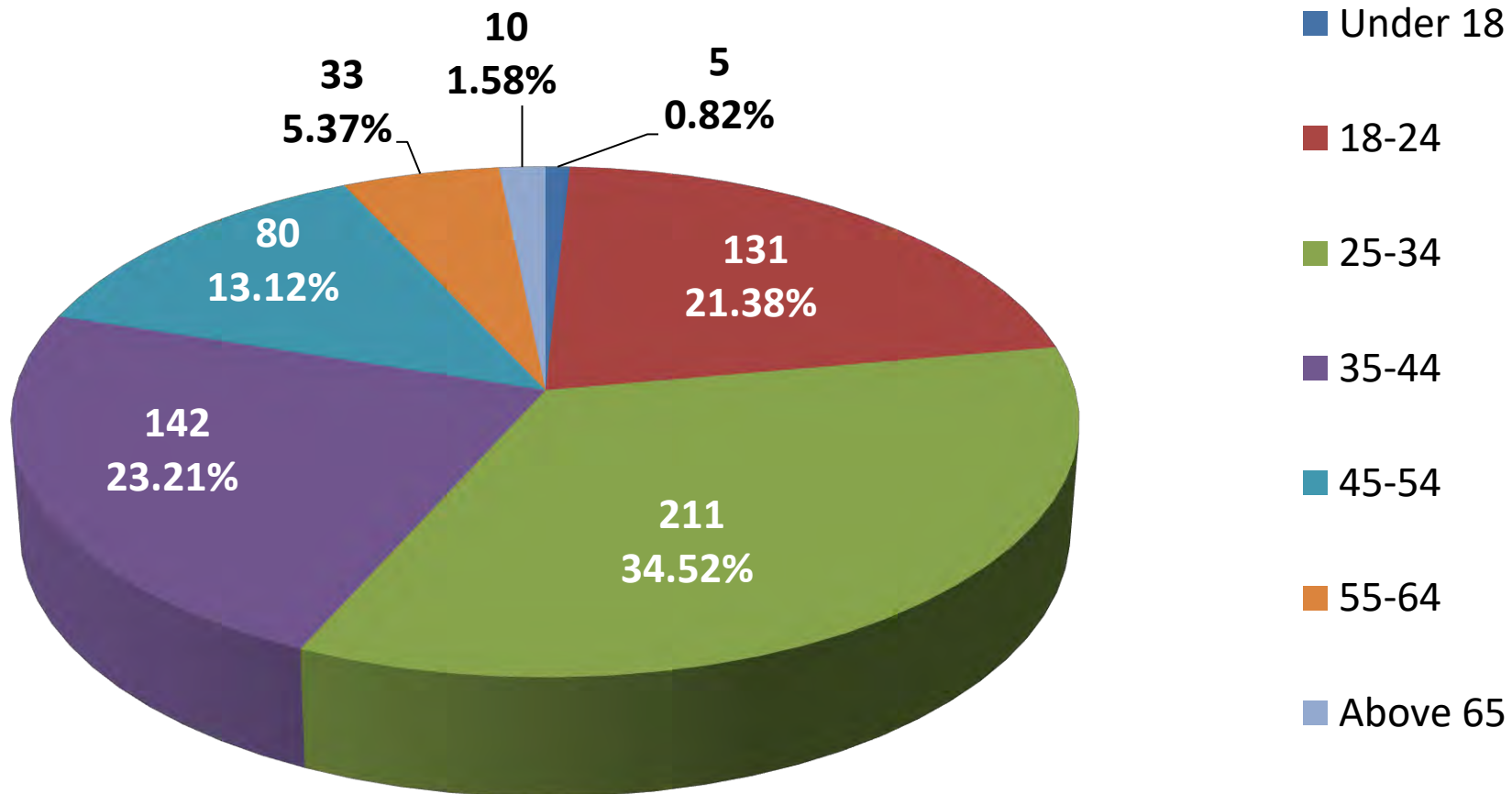
Jail: Historic Average Racial Mix

Historic Average Racial Mix: 2013 – 2023



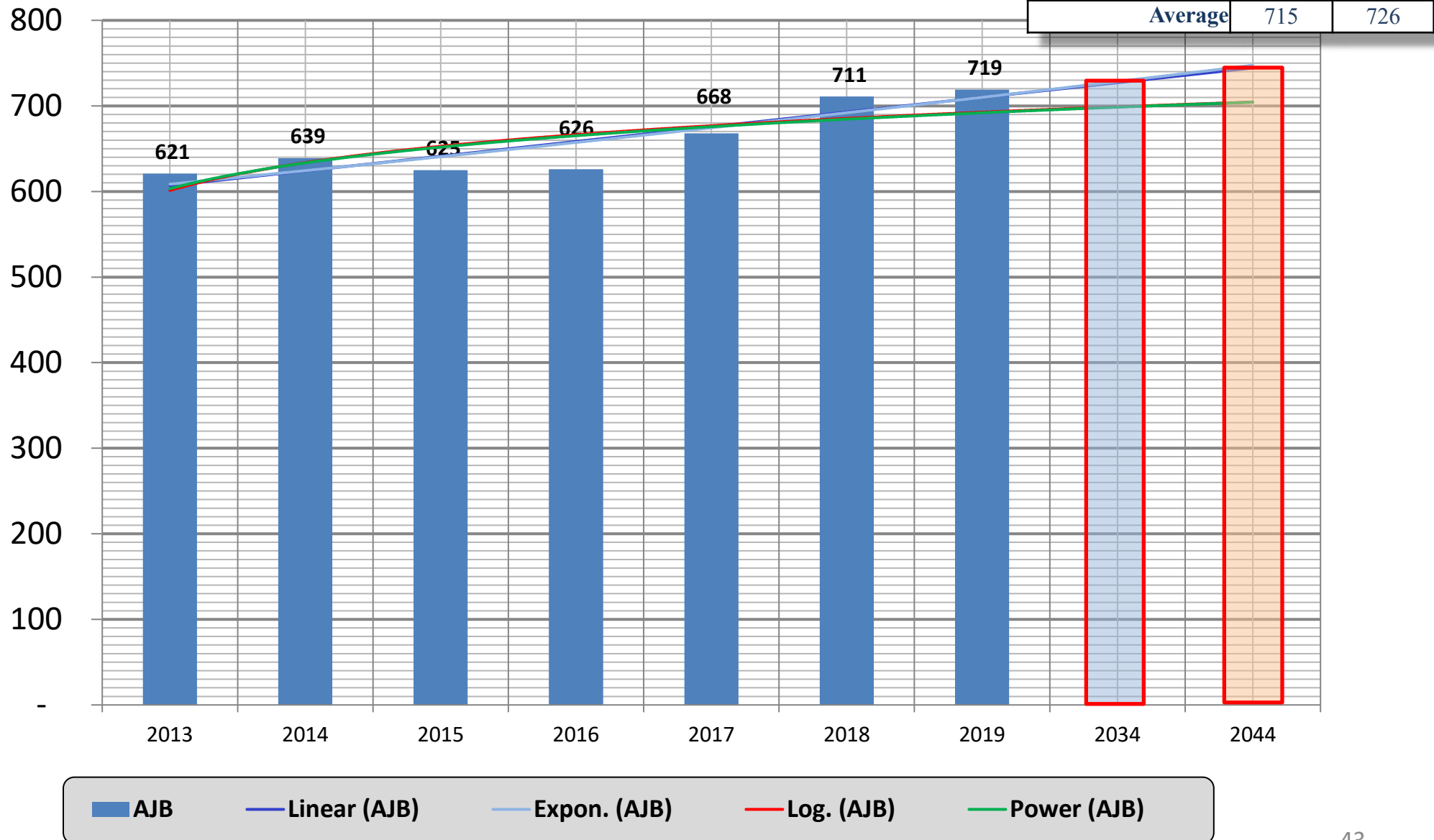
Jail: Historic Average Age Group Mix

Historical Average Age Group Mix 2013 – 2023 Total



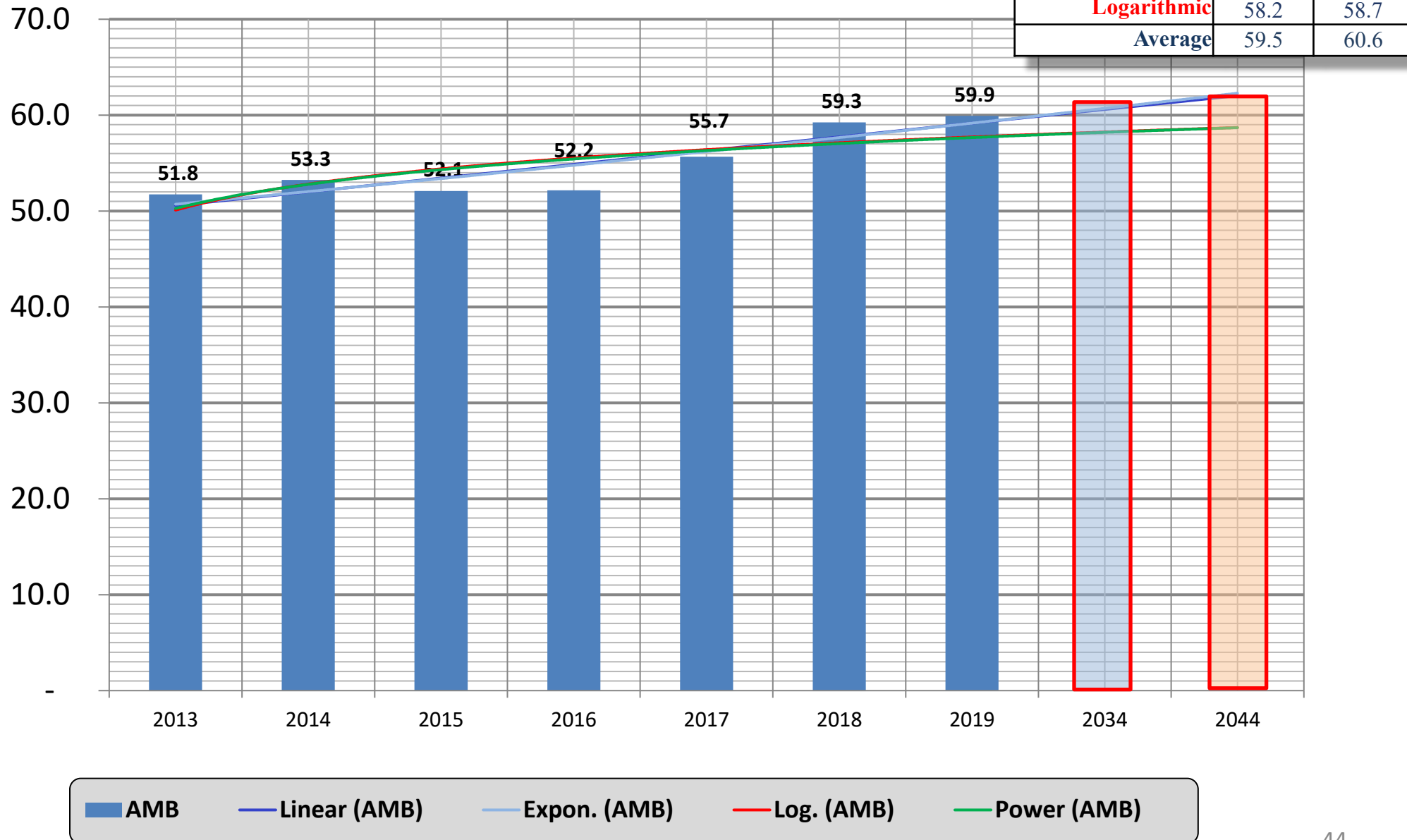
Annual Jail Bookings Projection Model 1: 2013 - 2019

Average Annual Jail Bookings (AJB)
Projection Model 1: 2013 - 2019



Monthly Jail Bookings Projection Model 1: 2013 - 2019

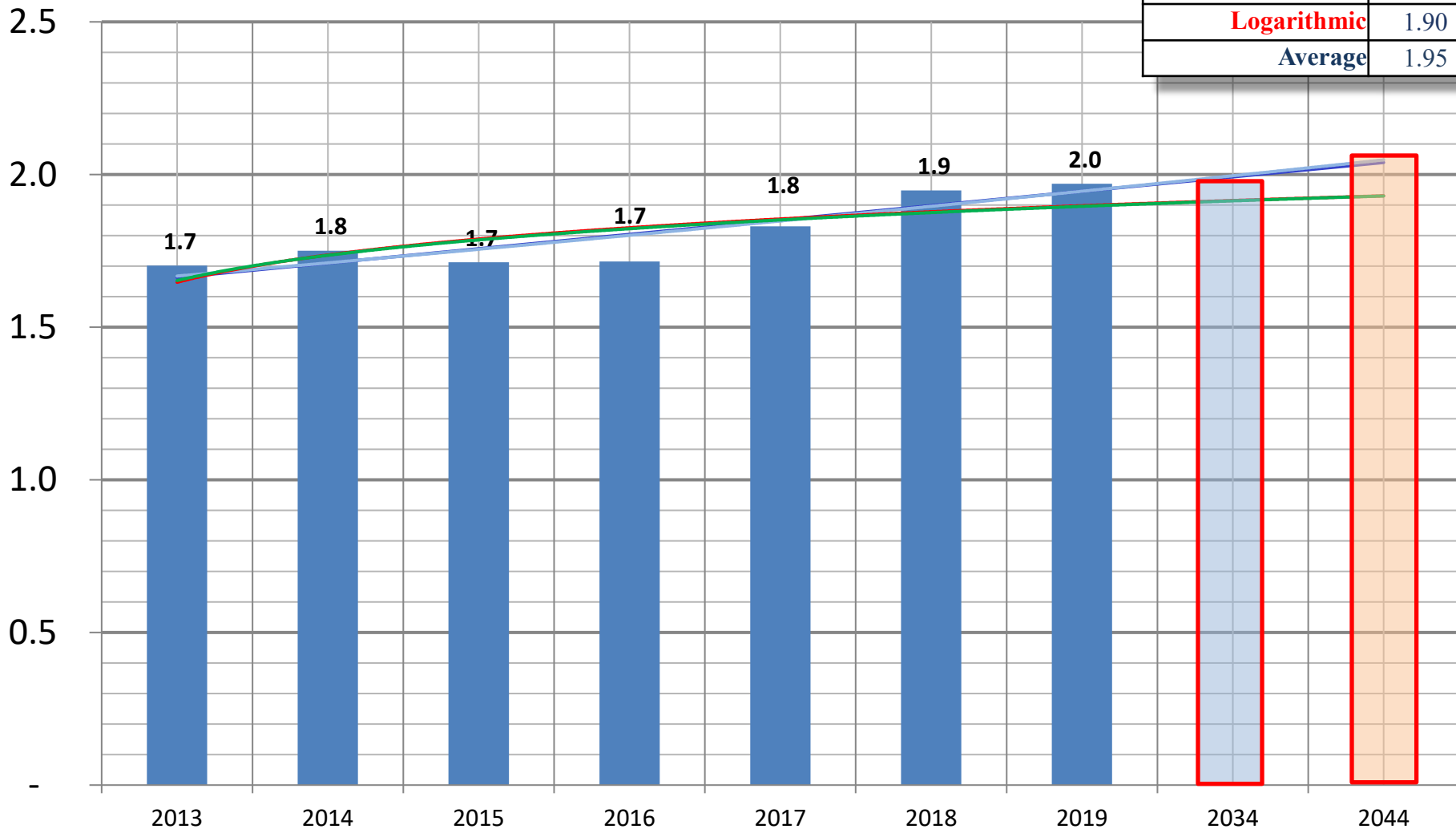
Average Monthly Jail Bookings (AMB)
Projection Model 1: 2013 - 2019



Daily Jail Bookings Projection Model 1: 2013 - 2019

Average Daily Jail Bookings (ADB) Projection Model 2: 2013 - 2019

Algorithm	2034	2044
Exponential	1.99	2.05
Power	1.91	1.93
Linear	1.98	2.04
Logarithmic	1.90	1.92
Average	1.95	1.99

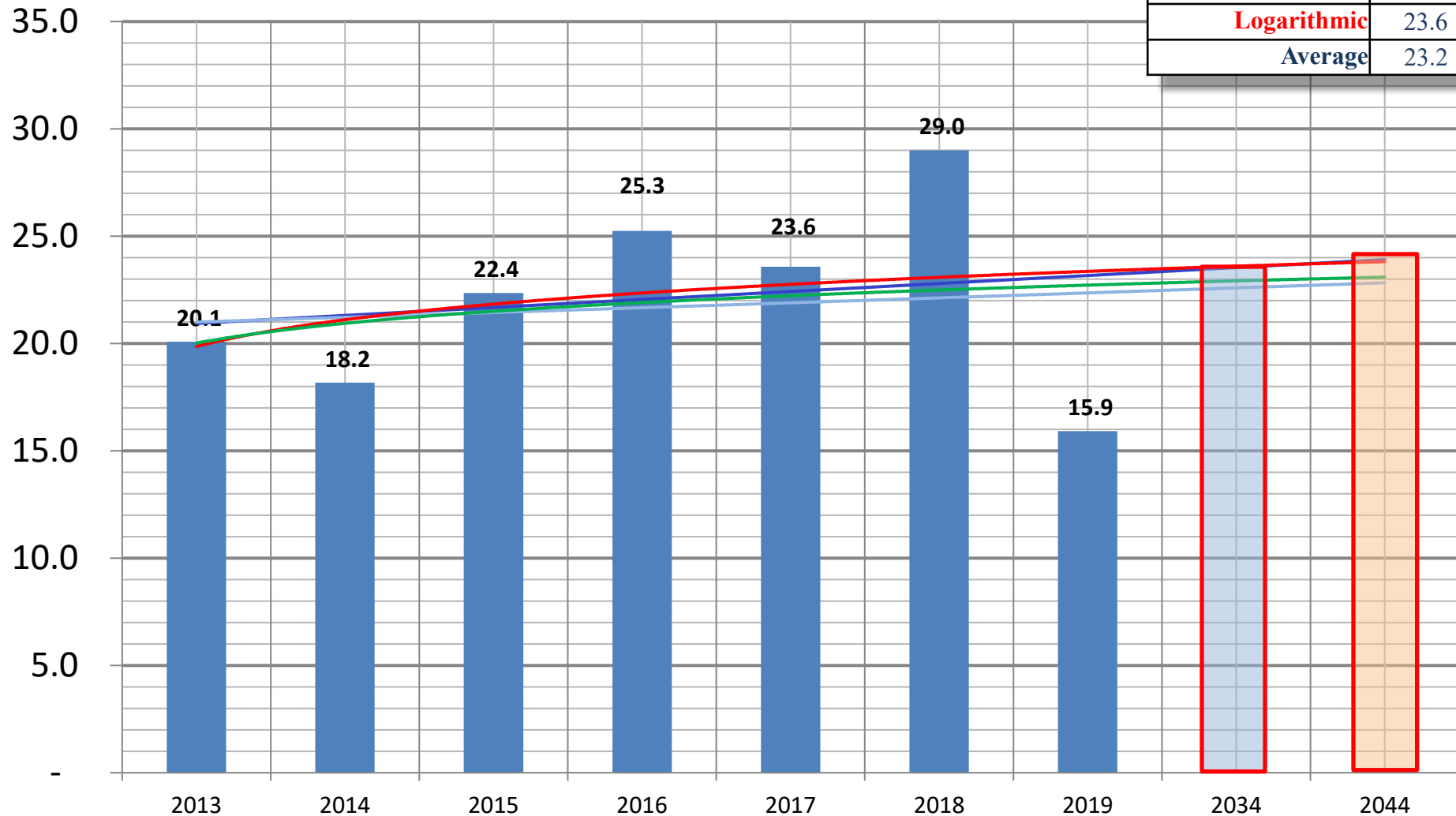


■ ADB — Linear (ADB) — Expon. (ADB) — Log. (ADB) — Power (ADB)

Average Length of Stay Projection Model 1: 2014 - 2019

Average Length of Stay (ALOS) Projection Model 2: 2014 - 2019

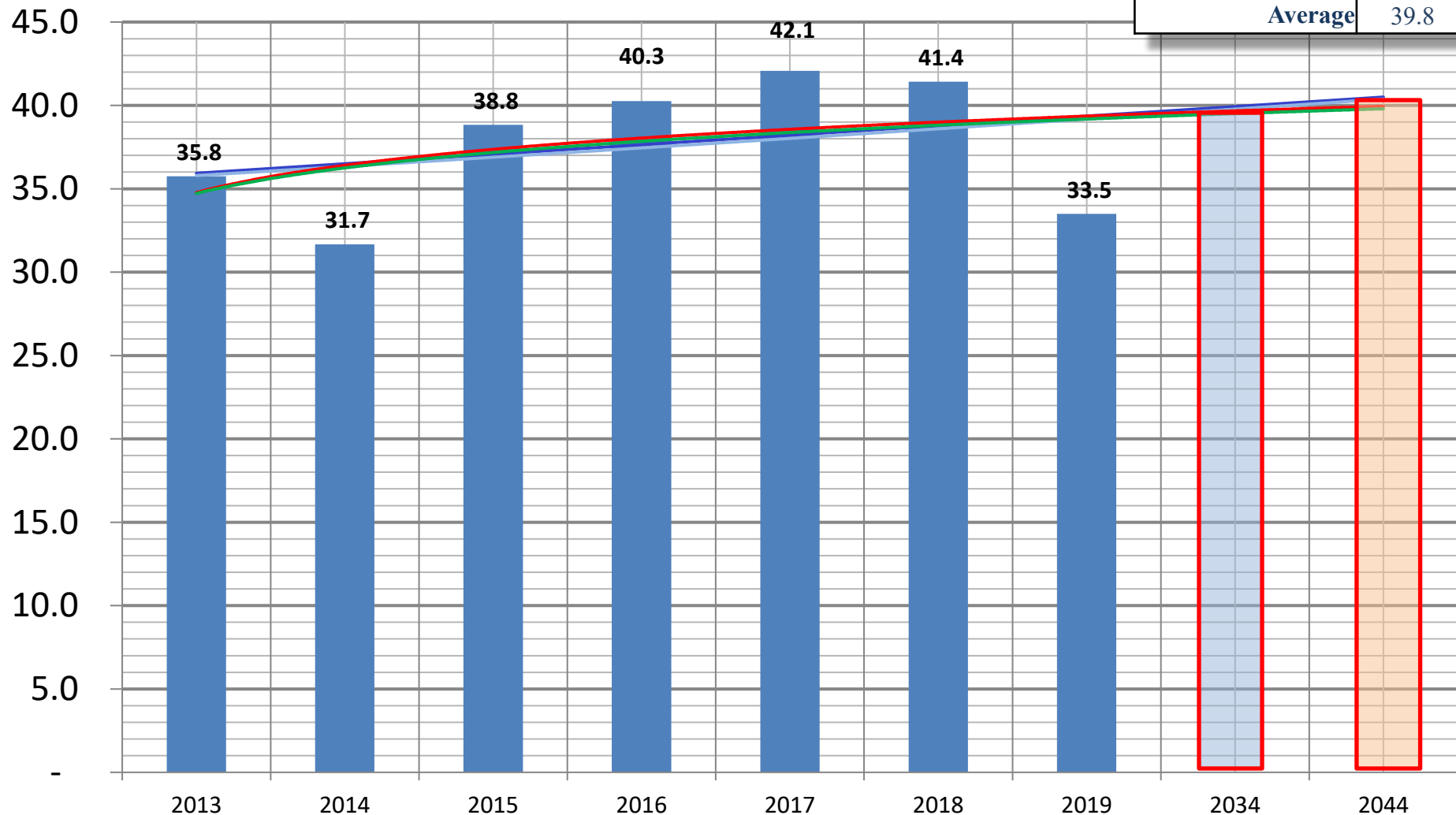
Algorithm	2034	2044
Exponential	22.7	22.9
Power	23.0	23.1
Linear	23.6	24.0
Logarithmic	23.6	23.8
Average	23.2	23.5



■ ALOS — Linear (ALOS) — Expon. (ALOS) — Log. (ALOS) — Power (ALOS)

Average Daily Population Projection Model 1: 2014 - 2018

Average Daily Population (ADP)
Projection Model 1: 2013 - 2019



Algorithm	2034	2044
Exponential	39.8	40.5
Power	39.7	39.8
Linear	40.0	40.4
Logarithmic	39.8	39.9
Average	39.8	40.2

ADP Linear (ADP) Expon. (ADP) Log. (ADP) Power (ADP)

Jail Projection Modeling Summary

Projection Model 1: 2013 - 2019 - ADP x CF	2034							2044						
	AJB	AMB	ADB	ALOS	ADP	CF	Beds	AJB	AMB	ADB	ALOS	ADP	CF	Beds
Exponential	730	60.8	1.99	22.7	39.8	20%	47.8	749	62.4	2.05	22.9	40.5	20%	52.7
Power	700	58.3	1.91	23.0	39.7	20%	47.6	704	58.8	1.93	23.1	39.8	20%	51.7
Linear	729	60.7	1.98	23.6	40.0	20%	48.0	747	62.3	2.04	24.0	40.4	20%	52.5
Logarithmic	700	58.2	1.90	23.6	39.8	20%	47.8	704	58.7	1.92	23.8	39.9	20%	51.9
Average	715	59.5	1.95	23.2	39.8	20%	47.8	726	60.6	1.99	23.5	40.2	20%	52.3
Model 2: 2013 - 2019 - ADB x ALOS x CF	2034							2044						
	AJB	AMB	ADB	ALOS	ADP	CF	Beds	AJB	AMB	ADB	ALOS	ADP	CF	Beds
Exponential	730	60.8	1.99	22.7	39.8	20%	54.2	749	62.4	2.05	22.9	40.5	20%	56.3
Power	700	58.3	1.91	23.0	39.7	20%	52.7	704	58.8	1.93	23.1	39.8	20%	53.5
Linear	729	60.7	1.98	23.6	40.0	20%	56.1	747	62.3	2.04	24.0	40.4	20%	58.8
Logarithmic	700	58.2	1.90	23.6	39.8	20%	53.8	704	58.7	1.92	23.8	39.9	20%	54.8
Average	715	59.5	1.95	23.2	39.8	20%	54.3	726	60.6	1.99	23.5	40.2	20%	56.1
Model 3: Period Peak Averages - ADB x ALOS x CF	2034							2044						
	AJB	AMB	ADB	ALOS	ADP	CF	Beds	AJB	AMB	ADB	ALOS	ADP	CF	Beds
Period Peak Averages	719	59.9	2.0	29.0	42.1	20%	62.6	719	59.9	2.0	29.0	42.1	20%	69.6
Terminology:				Table Legend					General Notes:					
Annual Jail Bookings = AJB				2033 Planning Model					1. Current Rated Jail Capacity: 30 Beds					
Average Monthly Bookings = AMB				2033 Planning Model					2. Current Effective Jail Capacity: 24 Beds					
Average Daily Bookings = ADB				Bed Calculation Componentets					3. 2024 Adjusted Beds based upon 2017					
Average Length of Stay = ALOS				Low Beds					Average of 42.08 x 20% Classification					
Average Daily Population = ADP				Mean Beds					Factor = 51 Beds					
CF = Classification Factor - Required for Classification/ Segregation				High Beds										

Adult Jail Bed Recommendation Considerations

- **Bed Recommendation Considerations:**

- *Judicial and Legislative variables that may impact Jail Operations, Facility and Space Needs in the Future.*
- *Changes in Sentencing Philosophies and/or Guidelines.*
- *Changing Realignment of the County Courts with Adjacent Counties.*
- *Nascent Mental Health Guidelines and Recommendations, No Current Regulations.*
- *Potential Artificial Adjustment of ADP Due to Existing Facility Classification Limitations.*
- *Adjusted 2024 Beds: 51*
- *Descending Trends in New Circuit and District Courts Case Filings.*
- *Impact of Alternative programs to Incarceration.*
- *Facility Longevity - Should Last 40 – 50 years.*
- *Plan for What We Don't Know.*
- *Maximize Capacity Since Construction Cost Never Cheaper than Today.*
- *Maximize Number of Beds Around a Single Control Room – Staff Efficiency.*
- *Potential Opportunity to Provide Beds to Other Counties to Offset Operational Costs.*

Options	General Housing								
	Beds	Male		Female		Special Classification		Juvenile	
		%	Beds	%	Beds	%	Beds	%	Beds
Option 1	60	74%	44	26%	12				
Option 2	70	74%	52	26%	13				
Option 3	80	74%	59	26%	15				

Comparable County Population

MICHIGAN POPULATION, by COUNTY															
Selected Years 1990-2022															
Estimated	2023	2022	2021	2020 Census	2019	2018	2017	2016	2015	2010 Census	2005	2000 Census	1995	1990 Census	2020- Pct. C
Michigan	10,037,261	10,033,281	10,038,117	10,077,331	9,986,857	9,984,072	9,973,114	9,950,571	9,931,715	9,883,640	10,092,426	9,938,444	9,659,871	9,295,287	-0.4%
Alcona County	10,489	10,397	10,295	10,167	10,405	10,360	10,309	10,360	10,330	10,942	11,489	11,719	10,538	10,145	3.2%
Alger County	8,757	8,773	8,774	8,842	9,108	9,118	9,144	9,129	9,255	9,601	9,535	9,862	9,936	8,972	-1.0%
Allegan County	121,939	121,290	121,068	120,502	118,081	117,173	116,368	114,979	114,112	111,408	111,985	105,665	97,412	90,509	1.2%
Alpena County	28,904	28,833	28,939	28,907	28,405	28,384	28,428	28,663	28,722	29,598	30,135	31,314	30,649	30,605	0.0%
Antrim County	24,409	24,265	23,879	23,431	23,324	23,323	23,270	23,079	23,035	23,580	24,198	23,110	20,155	18,185	4.2%
Arenac County	15,145	15,123	15,016	15,002	14,883	15,008	15,014	15,138	15,307	15,899	16,955	17,269	16,137	14,906	1.0%
Baraga County	8,310	8,283	8,286	8,158	8,209	8,324	8,441	8,546	8,585	8,860	8,687	8,746	8,483	7,954	1.9%
Barry County	63,808	63,402	63,141	62,423	61,550	61,231	60,682	59,810	59,426	59,173	58,976	56,755	52,882	50,057	2.2%
Bay County	102,500	102,638	103,108	103,856	103,126	103,702	104,045	104,411	105,237	107,771	108,673	110,157	111,219	111,723	-1.3%
Benzie County	18,441	18,327	18,237	17,970	17,766	17,761	17,624	17,534	17,390	17,525	17,439	15,998	13,710	12,200	2.6%
Berrien County	152,261	152,835	153,352	154,316	153,401	153,790	154,128	154,325	155,022	156,813	160,467	162,453	161,546	161,378	-1.3%
Branch County	45,215	44,502	45,215	44,862	43,517	43,566	43,375	43,466	43,639	45,248	46,356	45,787	42,759	41,502	0.8%
Calhoun County	133,366	133,424	133,878	134,310	134,159	134,049	134,180	134,344	134,327	136,146	138,289	137,985	139,287	135,982	-0.7%
Cass County	51,642	51,477	51,527	51,589	51,787	51,725	51,481	51,282	51,342	52,293	50,909	51,104	49,546	49,477	0.1%
Charlevoix County	26,159	26,173	26,199	26,054	26,143	26,187	26,212	26,190	26,210	25,949	26,286	26,090	23,487	21,468	0.4%
Cheboygan County	26,048	25,964	25,754	25,579	25,276	25,504	25,454	25,455	25,399	26,152	27,061	26,448	22,716	21,398	1.8%
Chippewa County	36,264	36,207	35,849	36,785	37,349	37,461	37,679	37,683	37,973	38,520	38,605	38,543	36,788	34,604	-1.4%
Clare County	31,316	31,307	31,131	30,856	30,950	30,735	30,565	30,387	30,616	30,926	31,212	31,252	27,989	24,952	1.5%
Clinton County	79,720	79,652	79,464	79,128	79,595	79,219	78,506	77,617	77,009	75,382	68,818	64,753	61,609	57,893	0.7%
Crawford County	13,538	13,434	13,277	12,988	14,029	13,905	13,906	13,768	13,853	14,074	14,732	14,273	13,568	12,260	4.2%
Delta County	36,790	36,781	36,825	36,903	35,784	35,843	35,890	36,196	36,415	37,069	37,823	38,520	38,742	37,780	-0.3%
Dickinson County	25,982	25,943	25,819	25,947	25,239	25,371	25,424	25,499	25,661	26,168	27,219	27,472	27,133	26,831	0.1%
Eaton County	108,820	108,854	108,908	109,175	110,288	109,710	109,456	109,183	108,661	107,759	107,237	103,655	98,570	92,879	-0.3%
Emmet County	34,123	34,215	34,297	34,112	33,415	33,225	33,081	32,875	32,924	32,694	33,298	31,437	27,360	25,040	0.0%
Genesee County	401,522	401,923	404,627	406,211	405,813	406,688	407,488	408,926	410,461	425,790	439,050	436,141	433,930	430,459	-1.2%
Gladwin County	25,853	25,621	25,475	25,386	25,449	25,326	25,241	25,154	25,227	25,692	26,748	26,023	24,130	21,896	1.8%
Gogebic County	14,224	14,377	14,367	14,380	13,975	15,116	15,340	15,340	15,536	16,427	16,558	17,370	17,803	18,052	-1.1%
Grand Traverse County	96,421	96,298	95,969	95,238	93,088	92,530	91,791	91,957	91,541	86,986	83,415	77,654	70,671	64,273	1.2%
Gratiot County	41,368	41,104	41,286	41,761	40,711	40,802	40,979	40,955	41,331	42,476	42,166	42,285	39,935	38,982	-0.9%
Hillsdale County	45,587	45,735	45,625	45,746	45,605	45,702	45,820	45,773	45,883	46,688	46,818	46,527	45,288	43,431	-0.3%
Houghton County	37,599	37,160	37,507	37,361	35,684	35,943	36,198	36,299	36,228	36,628	35,514	36,016	35,977	35,446	0.6%
Huron County	30,927	31,145	31,307	31,407	30,981	31,211	31,306	31,486	31,763	33,118	34,072	36,079	35,235	34,951	-1.5%
Ingham County	284,637	283,477	271,224	284,900	292,406	291,612	292,018	289,804	287,096	280,895	280,354	279,320	284,929	281,912	-0.1%
Ionia County	66,262	66,836	66,823	66,804	64,697	64,276	64,284	64,187	64,056	63,905	63,878	61,518	64,394	57,024	-0.8%
Iosco County	25,373	25,473	25,350	25,237	25,127	25,103	25,128	25,284	25,343	25,887	26,530	27,339	24,988	30,209	0.5%
Iron County	11,740	11,705	11,610	11,631	11,066	11,104	11,105	11,167	11,320	11,817	12,158	13,138	13,154	13,175	0.9%
Isabella County	64,118	64,366	64,248	64,394	69,872	70,463	71,077	71,263	70,767	70,311	66,164	63,351	56,789	54,624	-0.4%
Jackson County	159,424	159,758	160,162	160,366	158,510	158,566	158,563	158,277	159,264	160,248	162,561	158,422	153,414	149,756	-0.6%
Kalamazoo County	262,215	260,892	260,523	261,670	265,066	264,680	262,998	261,304	259,676	250,331	242,419	238,603	228,122	223,411	0.2%
Kalkaska County	18,490	18,244	17,994	17,939	18,038	17,806	17,571	17,263	17,248	17,153	17,110	16,571	14,917	13,497	3.1%
Kent County	661,354	658,920	658,852	657,974	656,955	653,350	649,278	643,858	637,164	602,622	595,339	574,335	530,818	500,631	0.5%
Keweenaw County	2,172	2,155	2,108	2,046	2,116	2,090	2,085	2,139	2,123	2,156	2,116	2,301	1,953	1,701	6.2%
Lake County	12,734	12,651	12,274	12,096	11,853	11,876	11,981	11,853	11,697	11,539	11,663	11,333	9,581	8,583	5.3%

Comparable County Population

Lapeer County	88,977	88,632	88,662	88,619	87,607	87,921	88,122	88,171	88,368	88,319	92,337	87,904	83,505	74,768	0.4%
Leelanau County	23,019	22,883	22,627	22,301	21,761	21,714	21,645	21,507	21,633	21,708	21,847	21,119	18,207	16,527	3.2%
Lenawee County	97,520	98,280	99,100	99,423	98,451	98,141	98,427	98,496	98,391	99,892	101,056	98,890	96,323	91,476	-1.9%
Livingston County	196,757	196,134	195,333	193,866	191,995	191,190	189,869	188,547	187,171	180,967	179,238	156,951	133,334	115,645	1.5%
Luce County	6,435	6,274	5,977	5,339	6,229	6,327	6,370	6,335	6,430	6,631	6,753	7,024	5,580	5,763	20.5%
Mackinac County	10,851	10,962	10,907	10,834	10,799	10,781	10,768	10,724	10,821	11,113	11,170	11,943	11,040	10,674	0.2%
Macomb County	875,101	874,235	877,646	881,217	873,972	872,795	871,364	868,534	864,960	840,978	824,621	788,149	765,957	717,400	-0.7%
Manistee County	25,562	25,365	25,328	25,032	24,558	24,455	24,393	24,424	24,457	24,733	24,936	24,527	22,854	21,265	2.1%
Marquette County	66,999	66,548	65,739	66,017	66,699	66,381	66,493	66,532	67,326	67,077	65,109	64,634	65,279	70,887	1.5%
Mason County	29,159	29,318	29,339	29,052	29,144	29,084	28,996	28,810	28,738	28,705	28,710	28,274	27,378	25,537	0.4%
Mecosta County	41,099	40,782	40,048	39,714	43,453	43,400	43,258	43,141	43,005	42,798	42,317	40,553	37,509	37,308	3.5%
Menominee County	22,945	23,225	23,317	23,502	22,780	22,927	22,981	23,208	23,476	24,029	24,556	25,326	24,539	24,920	-2.4%
Midland County	84,039	83,762	83,479	83,494	83,156	83,223	83,314	83,422	83,662	83,629	83,123	82,874	79,541	75,651	0.7%
Missaukee County	15,311	15,232	15,173	15,052	15,118	15,101	15,020	15,018	14,882	14,849	15,034	14,478	13,461	12,147	1.7%
Monroe County	155,045	155,235	155,534	154,809	150,500	150,174	149,449	149,159	149,353	152,021	152,219	145,945	138,906	133,600	0.2%
Montcalm County	68,154	67,209	67,320	66,614	63,888	63,936	63,527	62,953	62,763	63,342	63,098	61,266	57,951	53,059	2.3%
Montmorency County	9,678	9,557	9,302	9,153	9,328	9,275	9,233	9,203	9,287	9,765	10,350	10,315	9,716	8,936	5.7%
Muskegon County	176,564	175,539	175,550	175,824	173,566	173,599	173,645	173,227	172,447	172,188	173,981	170,200	163,620	158,983	0.4%
Newaygo County	51,108	50,728	50,413	49,978	48,980	48,839	48,320	47,811	47,882	48,460	49,419	47,874	43,428	38,206	2.3%
Oakland County	1,270,426	1,271,025	1,272,630	1,274,395	1,257,584	1,256,694	1,256,016	1,251,027	1,244,602	1,202,362	1,204,396	1,194,156	1,150,954	1,083,592	-0.3%
Oceana County	26,981	26,920	26,860	26,659	26,467	26,555	26,422	26,311	26,323	26,570	27,892	26,873	23,941	22,455	1.2%
Ogemaw County	20,990	20,919	20,774	20,770	20,997	20,882	20,882	20,850	20,877	21,699	21,622	21,645	20,593	18,681	1.1%
Ontonagon County	5,906	5,921	5,870	5,816	5,720	5,801	5,889	5,939	6,037	6,780	7,234	7,818	8,587	8,854	1.5%
Osceola County	23,330	23,279	23,196	22,891	23,460	23,377	23,267	23,170	23,177	23,528	23,416	23,197	21,743	20,146	1.9%
Oscoda County	8,545	8,391	8,320	8,219	8,241	8,224	8,238	8,259	8,277	8,640	9,036	9,418	8,686	7,842	4.0%
Otsego County	25,747	25,561	25,324	25,091	24,668	24,641	24,528	24,408	24,203	24,164	24,290	23,301	20,752	17,957	2.6%
Ottawa County	303,372	300,918	298,393	296,200	291,830	289,808	286,581	283,712	280,859	263,801	254,044	238,314	210,013	187,768	2.4%
Presque Isle County	13,285	13,343	13,172	12,982	12,592	12,698	12,742	12,735	12,801	13,376	13,998	14,411	14,320	13,743	2.3%
Roscommon County	23,863	23,682	23,653	23,459	24,019	23,819	23,724	23,739	23,913	24,449	25,739	25,469	23,439	19,776	4.7%
Saginaw County	187,782	188,373	189,516	190,124	190,539	190,799	Component					Estimated 2023		2020 Census	
Saint Clair County	159,874	159,668	160,205	160,383	159,128	159,039	Average Comparable County					38,335		38,241	
Saint Joseph County	60,878	60,778	60,844	60,939	60,964	60,919	Average Neighboring County					7,032		6,913	
Sanilac County	40,368	40,482	40,528	40,611	41,170	41,119	Houghton County					37,599		37,361	
Schoolcraft County	8,149	8,174	8,048	8,047	8,094	8,049	Planning Model					2034		2044	
Shiawassee County	68,025	67,967	67,991	68,094	68,122	68,139	Houghton County 2034					38,369		38,369	
Tuscola County	52,826	52,908	53,034	53,323	52,245	52,639	Houghton County 2044					38,499		38,499	
Van Buren County	75,798	75,669	75,678	75,587	75,677	75,489									
Washtenaw County	365,536	366,504	365,013	372,258	367,601	369,489									
Wayne County	1,751,169	1,758,942	1,774,807	1,793,561	1,749,343	1,754,453	1,757,217	1,760,612	1,764,872	1,820,584	2,025,951	2,061,162	2,131,160	2,111,687	-2.4%
Wexford County	34,122	34,018	33,898	33,673	33,631	33,446	33,234	33,081	32,889	32,735	31,573	30,484	28,543	26,360	1.3%

Comparable County Population

Michigan County Population					
County	2023	2022	2021	2020	2010
	Estimated			Census	Census
Baraga County	8,310	8,283	8,286	8,158	8,860
Chippewa County	36,264	36,207	35,849	36,785	38,520
Delta County	36,790	36,781	36,825	36,903	37,069
Gratiot County	41,368	41,104	41,286	41,761	42,476
Houghton County	37,599	37,160	37,507	37,361	36,628
Iron County	11,740	11,705	11,610	11,631	11,817
Keweenaw County	2,172	2,155	2,108	2,046	2,156
Mecosta County	41,099	40,782	40,048	39,714	42,798
Ontonagon County	5,906	5,921	5,870	5,816	6,780
Sanilac County	40,368	40,482	40,528	40,611	43,114
Wexford County	34,122	34,018	33,898	33,673	32,735
Average Neighbor Counties	7,032	7,016	6,969	6,913	7,403
Average Comparable Counties	38,335	38,229	38,072	38,241	39,452
Population Projection	2024	2034	2044	<i>Population Projection Based Upon Planning Model: Linear</i>	
Houghton County Population Projection	37,957	38,369	38,499		

Comparable County Jail Capacity

Co. Desig.	County	Estimated 2023	US Census 2020	Jail Capacity (Beds)	Beds Per 1,000 Population	Notes:
1.	Chippewa	36,264	36,785	179	4.9	
2.	Delta	36,790	36,903	156	4.2	
3.	Gratiot	41,368	41,761	70	1.7	
4.	Mecosta	41,099	39,714	97	2.4	
5.	Sanilac	40,368	40,611	175	4.3	
6.	Wexford	34,122	33,673	158	4.7	
Average		38,335	38,241	139	3.7	
7.	Houghton	37,599	37,361	30	.08	

Marquette County Population Projections:

2024	37,957	Planning Model: Linear Algorithm
2033	38,369	Planning Model: Linear Algorithm
2044	38,499	Planning Model: Linear Algorithm

General Notes:

1. Beds per 1,000 population based upon 2020 US Census Data
2. (#) Represents proposed new jail capacity (Beds).
3. (#) Houghton County range of bed recommendations.



Comparable County Population: Average and Marquette County Bed Recommendation Evaluation

Evaluation Component	Population	Jail Capacity (Beds)		Beds Per 1,000 Population	
	2020 Census	Current Beds	Recommended Beds	Current Per 1,000	Recommended Beds Per 1,000
Comparable Counties Average	38,241	139		3.6	
Houghton County	37,599	30		0.8	
2044 Houghton County Recommended Beds					
Recommendation Option	2044 Population	Current Beds	Recommended Beds	Current Per 1,000	Recommended Beds Per 1,000
Option 1:	38,499	30	60	0.8	1.6
Option 2:	38,499	30	70	0.8	1.8
Option 3:	38,499	30	80	0.8	2.1
Deviation from Comparable Counties Average within Houghton County 2044 Projected Population					
Recommendation Option				Bed Deviation	% Bed Deviation
Option 1: 60 Beds				79	57%
Option 2: 70 Beds				69	50%
Option 3: 80 Beds				59	42%

Committee Program Questionnaire Response 1/13/2025

1. How important is incarceration for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√
2. How important are alternative programs to incarceration for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√
3. How important is mental health and/or addiction treatment for detainees and/or incarcerated inmates for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√ √
4. How important are recidivism reduction programs for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√
5. Are there other programs could or should be available to inmates for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√
6. Are there other programs, operations or procedures that could or should be implemented by the sheriff's office and/or corrections to improve public relations for the benefit of your community on a scale of 1 (Not Important) to 5 (Extremely Important):				
Not Important	Somewhat Important	Important	Very Important	Extremely Important
				√

Space Standards Summary

Houghton County Justice Center Master Plan Study Space Standards Summary		
Space Standard		Net Square Feet (nsf)
A. Offices and Workstations		
1. Private Office Type "A" (Modified) a. Not Used		300nsf
2. Private Office Type "A" a. Note Used		240nsf
3. Private Office Type "B" a. Sheriff		192nsf
4. Private Office Type "B" (Modified) a. Under Sheriff b. Jail Commander/Captain		168nsf
5. Private Office Type "C" a. Lieutenant b. Detective c. Counselor		120nsf
6. Workstation Type "D" a. Not used		96nsf
7. Workstation Type "E" a. Detective b. Sergeant		80nsf
8. Workstation Type "E" (Modified) a. Corporal b. Nurse		60nsf
9. Workstation Type "F" a. Not Used		48nsf
B. Conference/Meeting Rooms		
1. Seating for 2 - 4		120nsf
2. Seating for 4 - 6		150nsf
3. Seating for 6 - 8		180nsf
4. Seating for 8 - 10		210nsf
5. Seating for 10 - 12		240nsf
6. Seating for 12 - 14		280nsf
7. Seating for 14 - 16		320nsf
8. Seating for more than 16 persons		18-20nsf per person
C. Conference/Training		
1. Large room (150 persons)		3,000nsf
2. Medium room (70 persons)		1,400nsf
3. Small room (35 persons)		750nsf
D. Court and Hearing Rooms		
1. Small Courtroom/Hearing (Gallery Seating for 30-40, 5 man jury with 2 alternates/optional)		1,425nsf
2. Video Arraignment		240 - 300 Min.
E. Adult Detention		
	Michigan Standards	ACA Standards
1. One Man Cell Accessible	80 nsf - no standard	80nsf
2. One Man Accessible (IIC) with Shower	89 nsf - no standard	106nsf

3. One Man Cell with Shower	61 nsf	94nsf
4. One Man Cell	52 nsf	70nsf
5. Two Man Accessible (IIC) Cell	80 nsf	80nsf
6. Two Man Accessible (HC) Cell with Shower	89 nsf	106nsf
7. Two Man Cell	65 nsf	94nsf
8. Two Man Cell with Shower	80 nsf	103nsf
9. Four Man Accessible (IIC) Cell	208 nsf	188nsf
10. Four Man Accessible (HC) with Shower	208 nsf	197nsf
11. Four Man Cell with Shower	208 nsf	194nsf
12. Four Man Cell	208 nsf	185nsf
13. Eight Man Accessible (IIC) Cell with Shower	416 nsf	372nsf
14. Eight Man Cell with Shower	416 nsf	366nsf
15. Dorm	72nsf per Inmate	50nsf per Inmate
16. Toilet Fixtures	At least 1 located within housing unit	Male: 1:12 (1:8) Female: 1:8
17. Sinks	At least 1 located within housing unit	Male: 1:12 (1:8) Female: 1:12 (1:8)
18. Showers	At least 1 located within housing unit	Male: 1:12 (1:8) Female: 1:12 (1:8)
19. Dayroom	20 nsf per Inmate Served	35nsf per Inmate Served
20. Indoor Recreation	No standard	15nsf per Inmate, 500SF Min.
21. Outdoor Recreation	No standard	15nsf per Inmate, 750SF Min.
22. Program/Classroom	Same as multi-purpose	15nsf per person min.
23. Kitchen	No standard	12 to 15nsf per inmate
24. Multi-Purpose	600	600
E. Miscellaneous		
1. Workroom/Galley		120nsf
2. Unisex (Handicap Accessible)		64nsf
3. Public Toilet Rooms		67nsf per w.c.
4. Stairs		144nsf per floor
5. Elevator		64nsf per floor
6. Elevator Equipment		80nsf
7. Janitor's Closet		60
8. Hard Interview		80 - 100nsf
9. Soft Interview		120 - 160nsf
10. Evidence Transfer Vestibule		120 - 160nsf
11. Evidence Storage		14nsf per Office
12. Fitness		7 to 10nsf per staff
13. Vehicular Sallyport, Maintenance/Wash Bays		540nsf Min.
14. Locker Room		6nsf per Staff
15. Toilets/Showers		4nsf per Staff
16. Sallyport (20' W x 26' W)		588
17. Laundry		1.5nsf per Inmate
18. Lab		200 - 600nsf
19. Intake Booking Counter		200 - 400nsf
20. Janitors Closet		60nsf

Example Space Standards Diagrams

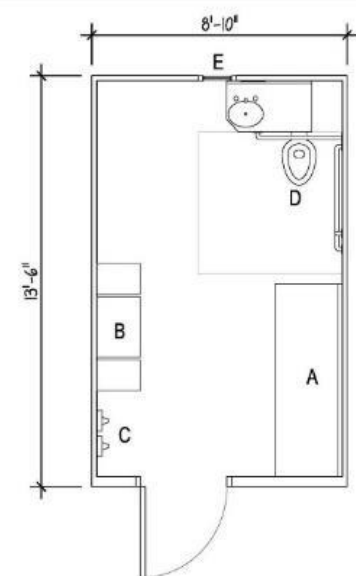
Office Types:		
Desig.	Description	Furniture and Equipment Diagram
A.1	240 Square Feet A. Plan View, Furniture and Equipment <ol style="list-style-type: none"> 1. Credenza- shown with PC (1) and Printer (2) 2. Double Pedestal Desk- 36" x 72" 3. Desk Chair 4. Guest Chairs, Qty. -2 5. Bookshelf Units, Qty. -3 6. Conference Table, Qty. -1 7. Conference Chairs, Qty. -3 B. Storage <ol style="list-style-type: none"> 1. File: 156" 2. Drawer: 136" 3. Bookshelf: 368" 	
A.2	240 Square Feet A. Plan View, Furniture and Equipment <ol style="list-style-type: none"> 1. Credenza- shown with PC (1) and Printer (2) 2. Double Pedestal Desk- 36" x 72" 3. Desk Chair 4. Guest Chairs, Qty. -2 5. Bookshelf Units, Qty. -3 6. Lounge Seating, Qty. -2 7. Coffee Table, Qty. -1 B. Storage <ol style="list-style-type: none"> 1. File: 156" 2. Drawer: 136" 3. Bookshelf: 368" 	
A.3	240 Square Feet A. Plan View, Furniture and Equipment <ol style="list-style-type: none"> 1. Credenza- shown with PC (1) and Printer (2) 2. Double Pedestal Desk- 36" x 72" 3. Desk Chair 4. Guest Chairs, Qty. -5 5. Bookshelf Units, Qty. -3 6. Conference Table, Qty. -1 7. Conference Chairs, Qty. -5 B. Storage <ol style="list-style-type: none"> 1. File: 156" 2. Drawer: 136" 3. Bookshelf: 368" 	

Two Man Accessible Cell

120 Square Feet

Plan View

- A. Wall Mounted Bunk, Qty. -2
- B. Cell Desk With Two Seats, Qty. -1
- C. Stainless Steel Robe Hook, Qty. -2
- D. Stainless Steel Toilet Sink Combo Unit, Qty. -1
- E. Window, Qty. -1

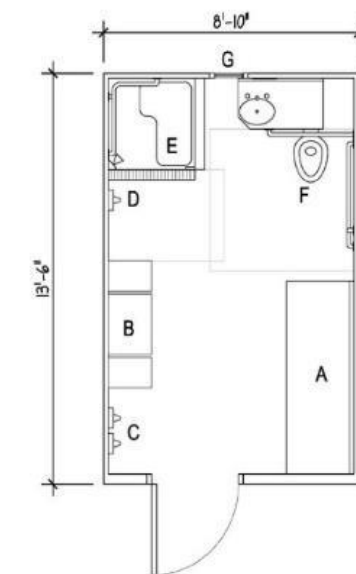


Two Man Accessible Cell with Shower

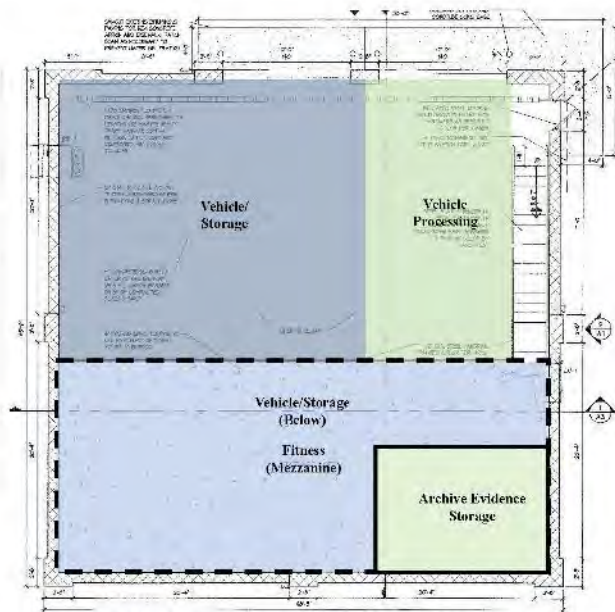
120 Square Feet

Plan View

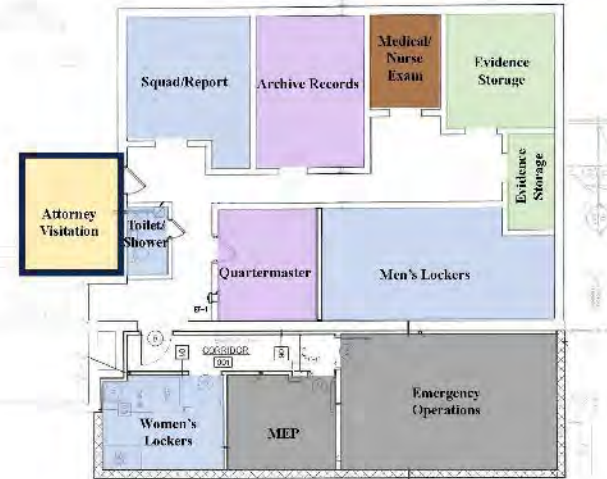
- A. Wall Mounted Bunk, Qty. -2
- B. Cell Desk With Two Seats, Qty. -1
- C. Stainless Steel Robe Hook, Qty. -2
- D. Stainless Steel Robe Hook For Shower, Qty. -1
- E. Stainless Steel Accessible Shower Unit With Anti-Microbial Curtain, Qty. -1
- F. Stainless Steel Toilet Sink Combo Unit, Qty. -1
- G. Window, Qty. -1



Existing Space Evaluation Diagrams



REMOTE STORAGE BUILDING - FIRST FLOOR & MEZZANINE PLAN
Scale: 3/16" = 1'-0"



BASEMENT PLAN
Scale: 3/16" = 1'-0"

I	Sheriff's Office
A	Public
B	Executive Administration
C	Road Patrol
D	Investigations
E	Marine/ORV/Snow Mobile
II	Corrections
F	Administration
G	Intake/Booking
H	Medical
I	Confinement Housing
J	Program
K	Kitchen/Laundry
III	Support Space
L	Support Space



FIRST FLOOR PLAN
Scale: 3/16" = 1'-0"

Existing Space Evaluation Methodology

Rating	<i>Unacceptable</i>		<i>Unsuitable</i>		<i>Marginal</i>		<i>Adequate</i>		<i>Appropriate</i>	
Score:	1	2	3	4	5	6	7	8	9	10
Score	Rating		Definition							
9 - 10	Appropriate		Sufficient quantity of space; good configuration and layout; little, if any improvement required							
7 - 8	Adequate		Quantity may be barely sufficient; configuration/flow are less than ideal; some renovation or expansion would enhance operations							
5 - 6	Marginal		Lacks sufficient quantity of space, quality of space or both; requires some expansion or renovation to achieve minimum recommended space standards							
3 - 4	Unsuitable		Poor quality and quantity of space; too small, improper layout, urgently requires improvement							
1 - 2	Unacceptable		Very overcrowded; numerous difficulties and inefficiencies; considered fundamentally unacceptable for continued use							
0	Non Existent		Space currently does not exist but is critical to minimum operational efficiency							

Existing Space Evaluation Summary

Houghton County Justice Center Master Plan Study Existing Space Evaluation Summary

Department: All

Division: All

Ref.	Component	Existing/Adjusted				Comments: Adjust Beds to 51 in Confinement Housing. 30 current.
		NSF	Rating	Adjusted NSF	Adjusted DGsf	
I.	Sheriff's Office					
A.	Public	274	3.0	1,088	1,251	Unsuitable
B.	Executive Administration	1,674	4.9	2,344	3,047	Unsuitable
C.	Road Patrol	2,381	3.0	4,350	5,655	Unsuitable
D.	Investigations	1,138	2.9	2,708	3,520	Unacceptable
E.	Marine/ORV/Snow Mobile	2,042	10.0	2,000	2,200	Adequate
	Subtotal	7,509	4.8	12,490	15,674	Unsuitable
II.	Corrections					
F.	Administration	216	1.6	933	1,213	Unacceptable
G.	Intake/Booking	653	2.4	2,234	2,904	Unacceptable
H.	Medical	98	1.0	588	764	Unacceptable
I.	Confinement Housing	2,366	5.2	5,070	7,098	Marginal
J.	Program	663	1.2	1,725	2,415	Unacceptable
K.	Kitchen/Laundry	647	2.5	1,410	1,622	Unacceptable
	Subtotal	4,643	2.3	11,960	16,016	Unacceptable
III.	Support					
L.	Support	899	2.6	2,288	2,517	Unacceptable
	Total NSF, DGsf & Overall Rating	13,051	3.2	26,738	34,207	Unsuitable
	Building Gross Square Feet (BGsf)	39,240	10%	3,421	37,627	Existing BGsf: 16,448
	Deficiency			13,687	21,179	Includes remote building (5,675 BGsf)

Notes:

1. The existing Space Evaluation only accounts for operational deficiencies to the extent they are addressed by space adjustments. This evaluation assumes that current operational deficiencies will be addressed by the insuring design phases

2. Terminology:

a. NSF: Net Square Footage = The actual area required for optimum performance of a function, task or duty.

Michigan Department of Corrections: Codes and Standards

- A. Security Garage**
- B. Safety Vestibule**
- C. Processing Area**
- D. Detoxification Cells**
- E. Holding Cells**
- F. Processing Storage**
- G. Control Centers**
- H. Corrections Officer Duty Stations**
- I. Housing**
- J. Food Preparation and Service Area**
- K. Public Lobby or Waiting Area**
- L. Visiting Accommodations**
- M. Laundry**
- N. Day Rooms**
- O. Multi-Purpose Room**
- P. Outside Exercise Area**
- Q. Medical Examination and Treatment Room**
- R. Administrative and Clerical Space**
- S. Security Perimeter Walls**
- T. Inmate Classification Area**
- U. Inmate Program Areas**
- V. Elevator**
- W. Exits**

Michigan Department of Corrections: Inmate Housing

- **High Security Cells**

- *> 10% capacity*
- *> 72 sq. ft. of floor space*
- *Combination plumbing fixture*
- *Perforated steel-bottomed bed*
- *Steel table, seat, mirror*

- **Medium Security Cells**

- *> 52 sq. ft. of floor area*
- *> 72 sq. ft. of floor area*
- *Double-bunking statute: > 65 sq. ft. of floor area and additional dayroom space = 20 sq. ft./inmate*
- *Multiple-occupancy statute: > 52 sq. ft. of floor area/inmate additional dayroom space = 20 sq. ft./inmate*

- **Low Security Areas**

- *> 52 sq. ft. of floor area (cell) if a dayroom is provided and directly accessible*
- *> 72 sq. ft. of floor space (cell) if no dayroom is provided*
- *Double-bunking statute: same as medium security areas*
- *Multiple-occupancy statute: same as medium security areas*

- **Double-Bunking**

- *Shall not exceed 75% of the total rated capacity*

- **Dormitory Capacity**

- *Shall not exceed 40% of the total rated capacity*

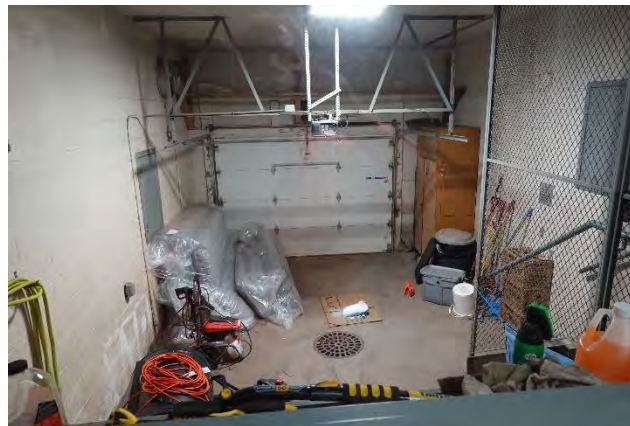
Houghton County Jail Deficiencies Summary

- **Security Garage**
 - *Marginally-compliant*
 - *Access / Pull-in-Back out difficult*
- **Processing Area**
 - *Marginally-compliant*
 - *Lacks adequate area and support functions*
 - *Lacks security*
- **Detoxification/Holding Cells**
 - *Generally-compliant*
 - *Good separation of male/female*
- **Control Centers**
 - *Non-compliant*
 - *Too many disparate functions*
- **Housing**
 - *Minimally-compliant*
 - *Very Poor visibility and layout*
 - *Inadequate inmate capacity*
- **Program Spaces**
 - *Non-compliant*
 - *Does not exist*
- **Multipurpose Room/Outdoor Recreation**
 - *Non-compliant*
 - *Does not exist*
- **Inmate Classification**
 - *Non-compliant*
 - *Performed in Booking room*
- **Correctional Officer Duty Stations**
 - *Minimally-Compliant*
 - *Central, Housing & Locker Room*
- **Public Lobby/Waiting**
 - *Minimally-compliant*
 - *Very small*
- **Visiting Accommodations**
 - *Minimally-Compliant*
 - *No privacy and requires upgrades in technology and design*
- **Dayrooms**
 - *Non-compliant*
 - *Some cells have no dayroom*
 - *Finishes in poor condition*
- **Medical Examination and Treatment Rooms**
 - *Non-compliant*
 - *Completely inadequate space*
- **Administrative and Clerical Space**
 - *Marginally-compliant*
 - *Significant space needs*
 - *Significant lack of storage*

Compliance with Michigan Department of Corrections Jail Standards

A. Security Garage

- *Marginally compliant*
- *Pull in – back out config.*
- *Interior space very tight*
- *No large vehicle access*
- *Equipment stored in room*
- *Stair required to access jail floor elevation*



B. A Safety Vestibule

- *Non-compliant*
- *Steps difficult to maneuver with intoxicated inmates*
- *Vestibule is actually corridor between booking and housing*



Compliance with Michigan Department of Corrections Jail Standards

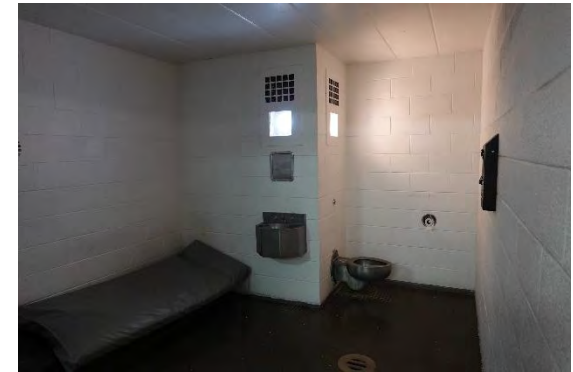
C. Processing Area

- *Marginally compliant*
- *Open to secure corridor*
- *Inadequate storage*
- *Lack of security*
- *Generally dysfunctional, shared space with other functions*



D. Detoxification Cells

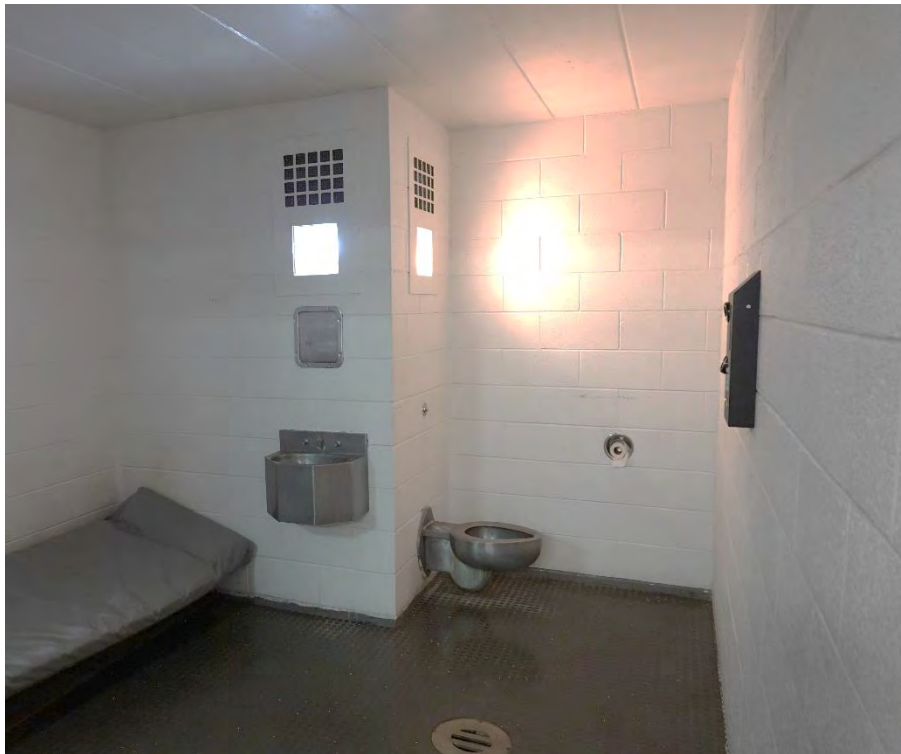
- *Generally compliant*
- *Several holding cells*
- *Male and Female cells*
- *Close to control room*
- *No direct visibility*



Compliance with Michigan Department of Corrections Jail Standards

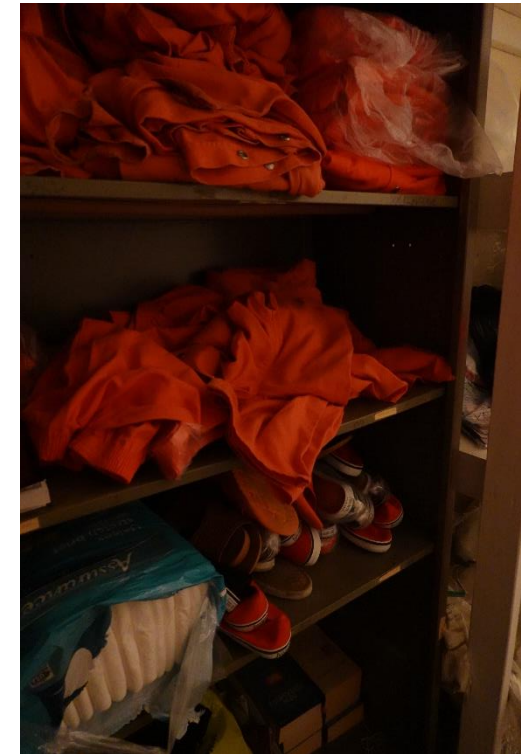
E. Holding Cells

- *Generally compliant*
- *1 holding & 2 seg. cells*
- *No padded cell*
- *No medical holding*
- *Limited direct visibility*



F. Processing Storage

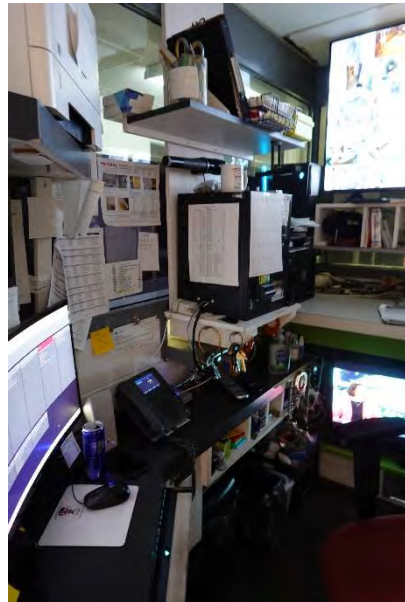
- *Non-compliant*
- *Space much too small*
- *Inconveniently located all over facility*



Compliance with Michigan Department of Corrections Jail Standards

G. Control Center

- *Non-compliant*
- *Poor visibility of facility*
- *All windows covered with equipment*
- *Disparate systems operating in control room*



H. Corrections Office Duty Stations

- *Minimally compliant*
- *Central control*
- *Poor locker facilities*



Compliance with Michigan Department of Corrections Jail Standards

I. Housing

- *Minimally compliant*
- *No direct visibility into any unit*
- *12 classification opportunities*
- *2 Holding Cells*
- *Inadequate inmate capacity*



J. Food Preparation and Service Area

- *Generally compliant for population*
- *Minimal storage and cooler / freezer space*
- *Difficult delivery/loading*



Compliance with Michigan Department of Corrections Jail Standards

K. Public Lobby or Waiting Area

- *Minimally compliant*
- *Access only to Sheriff's Office window*
- *Very small / little seating*



L. Visiting Accommodations

- *Marginally compliant*
- *Not appropriate for privacy and current technology use*



Compliance with Michigan Department of Corrections Jail Standards

M. Laundry

- *Non-Compliant*
- *Much too small*
- *Inadequate equipment, not commercial grade*
- *Inadequate folding and storage areas*



N. Dayrooms

- *Non compliant*
- *Lack of visibility / supervision*
- *Low shower ratios*
- *Some cells have no dayroom*



O. Multi-Purpose Room

- *Non-compliant*
- *Does not exist*

P. Outside Exercise Area

- *Non-compliant*
- *Does not exist*

Compliance with Michigan Department of Corrections Jail Standards

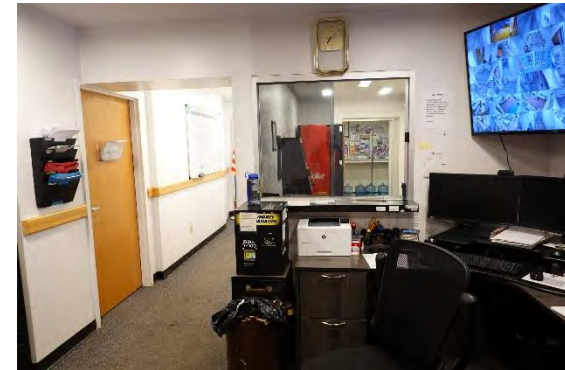
Q. Medical Examination and Treatment Room

- *Non-compliant*
- *Medical office completely inadequate*
- *Exam space non-existent*
- *Inadequate drug storage*



R. Administrative and Clerical Space

- *Marginally compliant*
- *Significant space needs*
- *Significant lack of storage*



Compliance with Michigan Department of Corrections Jail Standards

S. Security Perimeter Walls

- *Marginally Compliant*
- *Some condition concerns*
- *Very antiquated design*



T. Inmate Classification Area

- *Non-compliant*
- *Does not exist*
- *Performed at booking in inappropriate space*



Compliance with Michigan Department of Corrections Jail Standards

U. Inmate Program Areas

- *Non-compliant*
- *Does not exist*

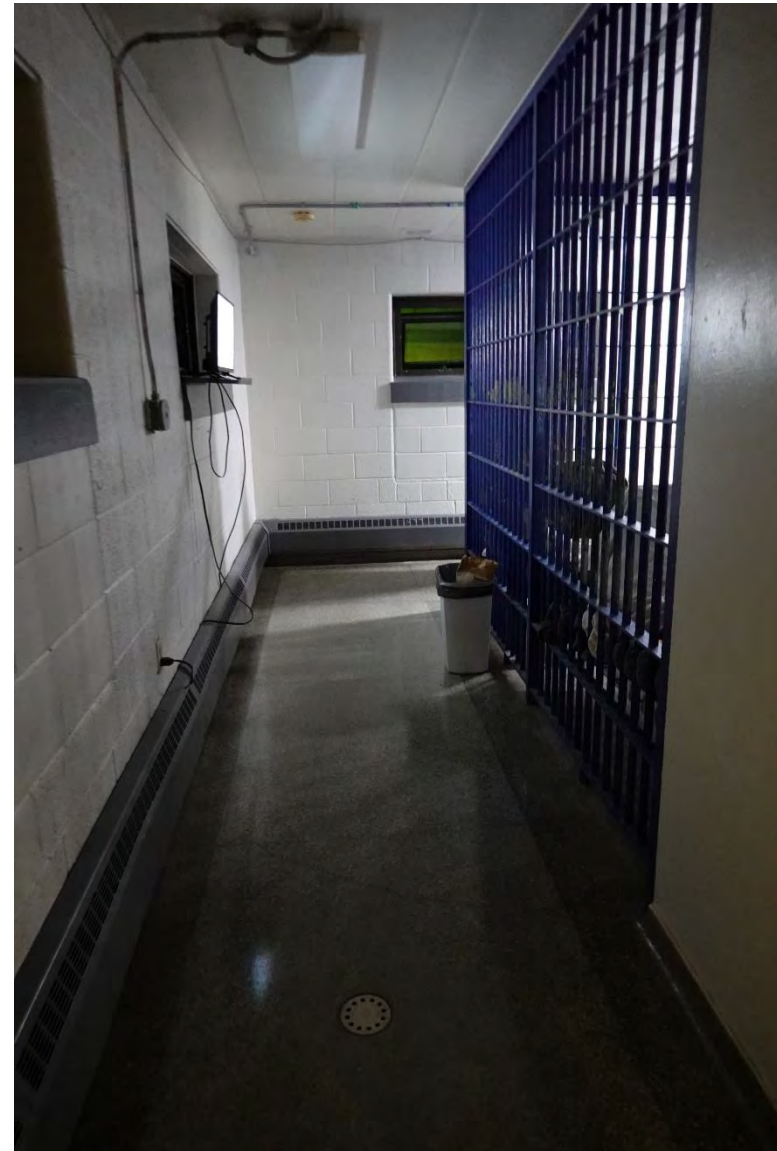


V. Elevator

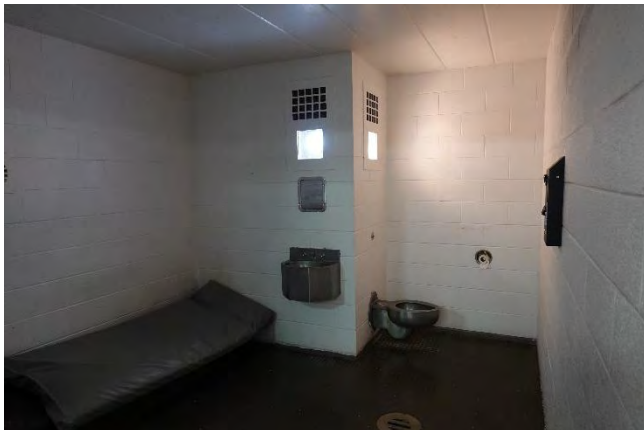
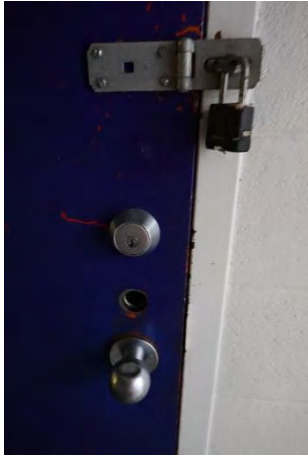
- *Does not exist*

W. Exits

- *Non-Compliant*



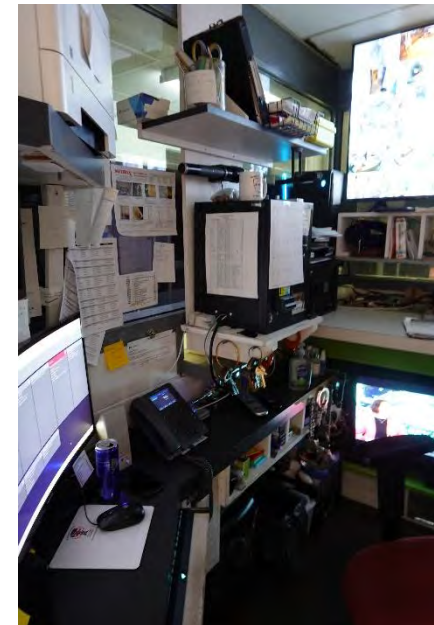
Existing Facility Systems Evaluation: Detention & Security



- **Detention Equipment:**
 - *Hardware:*
 - *Locks are old and difficult to repair.*
 - *Poor to Fair condition.*
 - *Hardware well worn, but functioning.*
 - *High traffic doors should be serviced.*
 - *Furniture / Equipment:*
 - *Most existing furniture and equipment is acceptable. New replacements would be of higher quality /function.*
 - *Plumbing:*
 - *Stainless steel fixtures are generally acceptable. China fixtures must be replaced.*
 - *Shower finishes should be upgraded.*
 - *Security Electronics:*
 - *Existing system is barely functional, thanks to somewhat recent upgrades.*
 - *Systems are **not** fully integrated.*
 - *Multiple providers with multiple responsibilities.*

Existing Facility Systems Evaluation: Security Electronics

- **Existing System/Major Component Summary:**
 - *Security Electronics and CCTV*
 - *The building has electronic locks on security doors and security cameras installed throughout.*
 - *These systems are monitored and controlled from the central control room. The security electronics system was recently expanded, which included additional door controls and security cameras, but many of the existing devices were left as is.*
 - *New data equipment racks and data cabling were installed.. The new equipment appears to be properly installed and in good condition. Outdated telephone terminal blocks also remain in the building.*
- **Recommended Replacement/Corrective Work Summary**
 - *Integrate systems, configure consoles*
- **Anticipated Cost of Replacement/Corrective Work Summary**
 - *Item: \$? to \$?*



Existing Facility Systems Evaluation: Structural/Architecture



- **Structural:**

- *Foundations and Footers:*
 - *No deficiencies observed.*
- *Structure*
 - *No deficiencies observed.*

- **Architecture:**

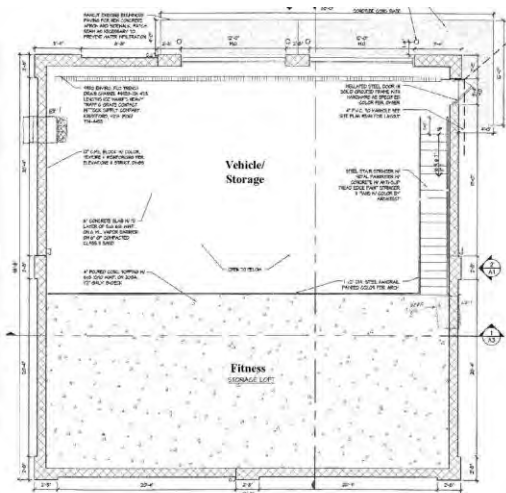
- *Roof:*
 - *Roof is believed to be original to the building, over 50 years old.*
 - *Roof is past it's life expectancy and leaks reported.*
- *Shell:*
 - *Security windows and security window cage appear to be past life cycle.*
 - *Masonry is in good condition with some joint and veneer deterioration*
 - *Visible signs of adhesion and cohesion caulking/sealant failure.*
 - *Some signs of exterior hollow metal door and frame rusting/deterioration.*
 - *Steel lintels show signs of rusting.*

Existing Facility Systems Evaluation: Architecture

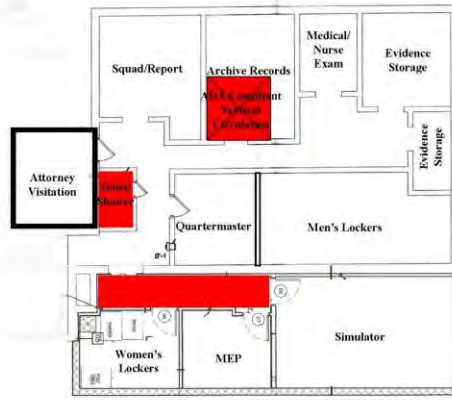
- **Architecture, Continued:**

- *Interior Doors, Frames and Borrowed Lights:*
 - *Doors, frames are generally in good condition and require some maintenance.*
 - *Commercial door hardware are not ADA compliant.*
 - *Borrowed lights are in good condition but show some signs of deteriorated paint.*
- *Interior Partitions:*
 - *CMU walls are in good condition with some signs of paint deterioration;*
 - *Metal stud in gyp. bd. partitions are generally in good condition, but show some signs of damage and require some maintenance.*
- *Finishes:*
 - *Base: Generally, in good condition with some signs of damage and require some maintenance.*
 - *Flooring: Generally, in good condition with some signs of damage and require some maintenance.*
 - *Walls/Paint: Generally, in good condition with some signs of damage and require some maintenance.*
 - *Ceilings: Generally, in good condition with some signs of damage and require some maintenance.*
- *Fittings:*
 - *Plastic laminate countertops are generally in poor condition and show signs of deterioration.*
 - *Stairs from sallyport shows signs of rust and significant deterioration.*

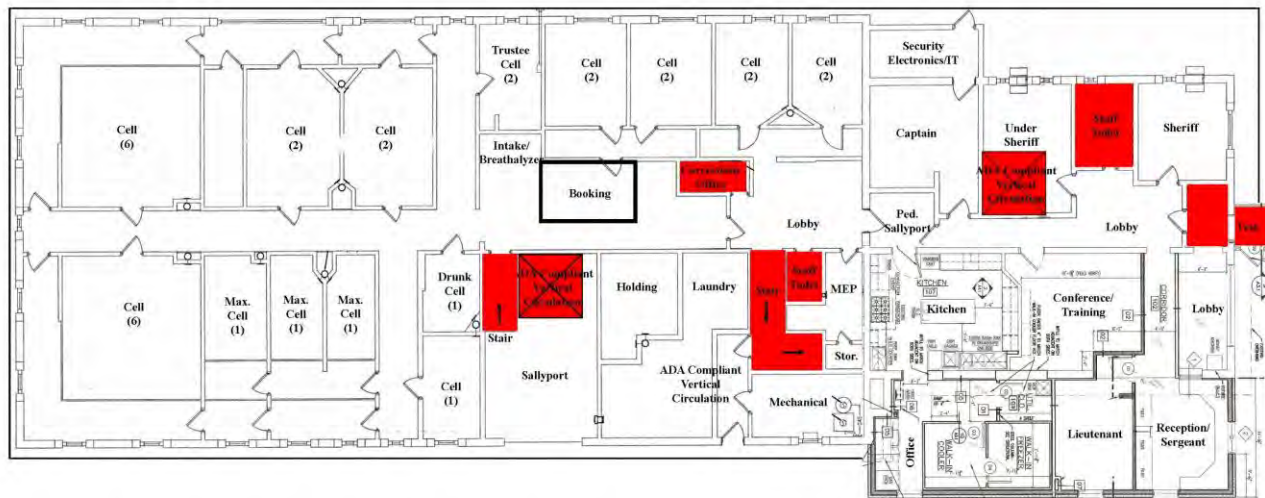
Existing Facility Systems Evaluation: ADA



REMOTE STORAGE BUILDING FIRST FLOOR & MEZZANINE PLAN
Scale: 3/16" = 1'-0"



BASEMENT PLAN
Scale: 3/16" = 1'-0"



FIRST FLOOR PLAN – SPACE EVALUATION DIAGRAM
Scale: 3/16" = 1'-0"

• ADA:

- ADA Compliance:

- No staff toilet rooms are ADA compliant. ■
- Holding and confinement ADA housing toilets and showers are not compliant. ■
- Many doors do not have ADA required push/pull clearances.
- No ADA vertical circulation is compliant. ■

ADA Compliant
Vertical
Circulation

Existing Facility Systems Evaluation: Architectural/Structural

- **Recommended Replacement/Corrective Work Summary:**
 - **Structural:**
 - *No corrective work required.*
 - **Roof:**
 - *Replace roof.*
 - **Shell:**
 - *Replace exterior security windows and cages and deteriorated hollow metal doors/frames.*
 - *Replace exterior caulking/sealants.*
 - **Interior Doors, Frames and Borrowed Light:**
 - *Maintenance only.*
 - **Interior Partitions:**
 - *Maintenance only.*
 - **Finishes:**
 - *Maintenance only.*
 - **Fittings:**
 - *Replace deteriorated plastic laminate countertops.*
 - *Replace deteriorated stair form sallyport.*
 - **ADA:**
 - *Renovate/expand toilet rooms to be ADA compliant*
 - **Vertical Circulation:**
 - *Install vertical circulation at staff area and sallyport.*
- **Anticipated Cost of Replacement/Corrective Work Summary:**
 - *\$403,728 to \$469,198*

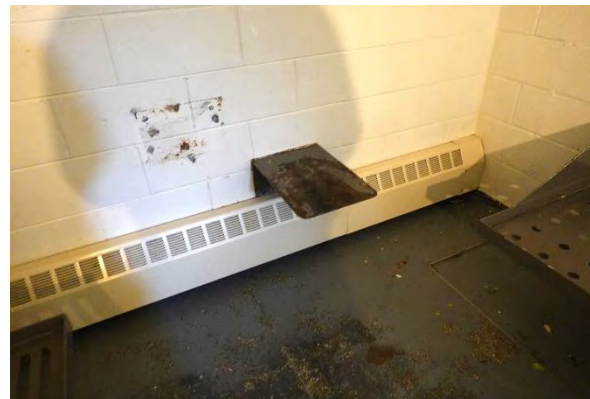
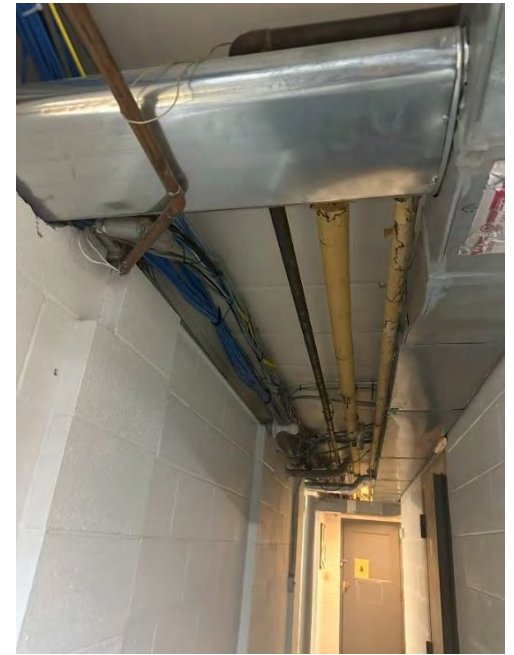
Existing Facility Systems Evaluation: Mechanical

The building has rooftop air handling units with energy recovery. These were last replaced in 2004 and are near or have exceeded their life cycle.

All of the duct work is run exposed on the roof. This was necessitated because of the low floor to floor elevation and no room to run ductwork. The only improvement would be to replace like for like.

The building has two instantaneous gas fired hot water boilers that provide heat to the domestic water tank and the perimeter fin radiators and connectors.

Electrical base board heating system has been installed at select locations to provide supplemental heating.



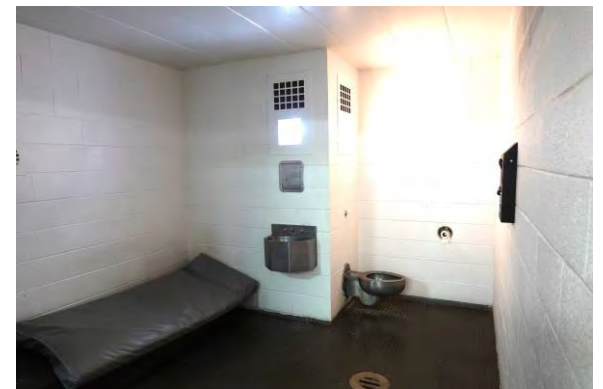
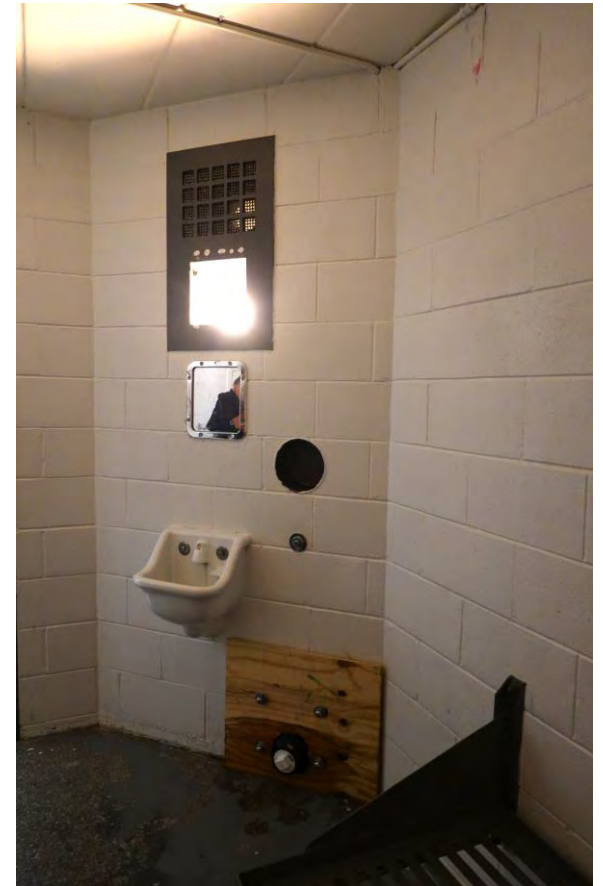
Existing Facility Systems Evaluation: Plumbing

Plumbing is a combination of vitreous china and stainless-steel security type fixtures and appear to be original to the building. An inmate housing vitreous china toilet failure was observed.

Issues with under slab sewer piping was not reported. However, is probably original to the building and near at end-of-life cycle.

Floor drains appear to be functioning, but were not observed in each cell.

ADA accessible compliant showers are not provided.



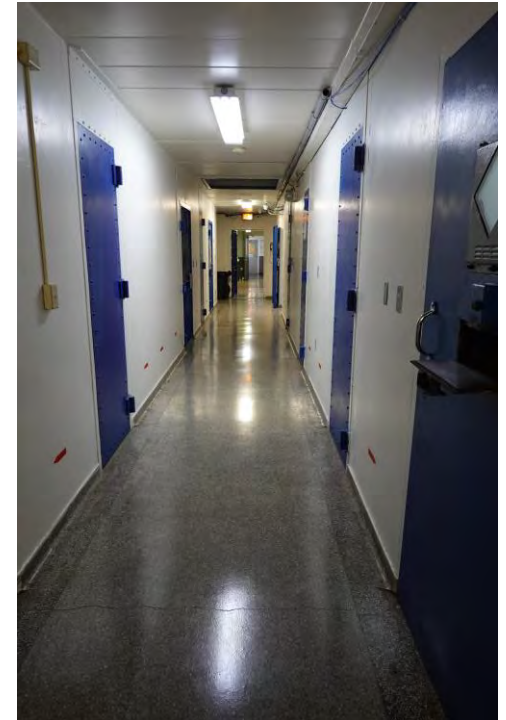
Existing Facility Systems Evaluation: Fire Protection

Fire Alarm:

The building does not have a fire alarm system. It only has smoke detectors at the sleeping areas. A building such as this should have a manual fire alarm system with automatic smoke detection as part of the centralized system. Additionally, there should be horn/strobe fire alarm annunciators throughout the building. HVAC air handlers should also have duct smoke detectors to automatically shut down the units and stop the spread of smoke to other areas of the building through the ductwork.

Automatic Sprinkler System:

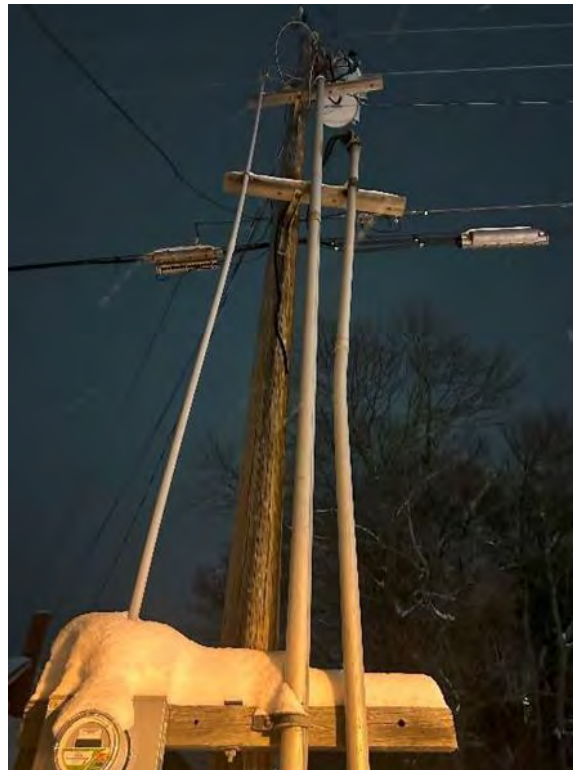
An automatic sprinkler system was not observed and is required by code.



Existing Facility Systems Evaluation: Electrical

Power Service:

The power service to the Sheriff's Office and Jail come from overhead utility power lines at the east side of the building. A utility pole mounted transformer and pole mounted meter supply a 200A, 240/120V, single phase power service to the building. At this pole, overhead utility lines drop underground and route into the building. A power service of this size is quite small for a facility such as this. There is little to no capacity left on the service for future expansion or additional equipment. Additionally, the single-phase service limits the facility to using single phase 240V equipment, which is typically residential or light commercial type. Three phase and/or 480V equipment is not compatible with this building.



Existing Facility Systems Evaluation: Electrical (Cont.)

Back Up Power:

The entire building is backed up by a standby generator system. The generator is an indoor open set diesel engine generator with a rated power capacity of 40KW. It serves the entire Sheriff's Office and Jail facility and parts of the adjacent courthouse building. The generator has little to no spare capacity and cannot support future expansion to the building or additional equipment.

Additionally, it appears to be older and nearing the end of its expected useful lifespan.

Generator power is fed into an automatic transfer switch, which serves the main distribution panel for the building. The ATS is designed to automatically supply generator power to the building in the event of a power failure from the utility. This appears to be newer and in fair condition.



Existing Facility Systems Evaluation: Electrical (Cont.)

Power Distribution

The building's main distribution panel is a 200A, 240/120V, single phase panel. The panel is a circuit breaker type and has a 200A main circuit breaker built in. There are three spaces available to install additional branch breakers onto the panel, but system ampacity is of concern. There are four 70A, 2P breakers, two 45A, 2P breakers, and many 1P breakers already in the panel, totaling well over 200A.

Other branch circuit panels are installed throughout the building. They are also circuit breaker type. Most panels have little to no breaker space available for connecting additional loads.

All panels in the building seem to be newer and in fair condition.



Existing Facility Systems Evaluation: Electrical (Cont.)

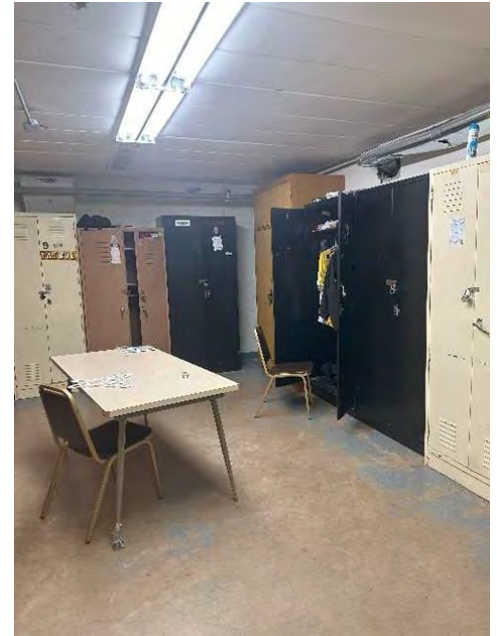
Lighting Systems

Light fixtures in the facility are mostly surface mounted T8 fluorescent lamp type, with retrofit LED lamps. Many of the fixtures are missing the lens and bare lamps are unprotected and unshielded to glare. There are also E26 light bulb sockets with LED lamps installed on walls. These too are unprotected and unshielded.

Technology for lighting systems has advanced dramatically over the last 10 years. LED fixtures are the industry standard and are required to meet today's energy code. Even if the light fixtures have been retrofitted with LED lamps, fixtures with built-in LEDs perform much better. If a major renovation is to occur, the lighting system should be replaced with current technology.

This facility has little to no automatic lighting control inside the building. Lighting controls technology has also advanced quite a bit recently. Today's energy code requires automatic control in almost all spaces, dimming controls in most spaces, and daylight harvesting. To meet Michigan's current energy code, many light switches and devices will need to be added or replaced. A centralized lighting control system is also recommended for a facility such as this.

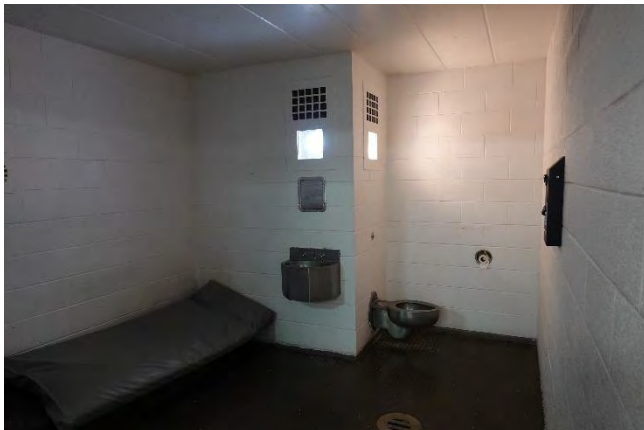
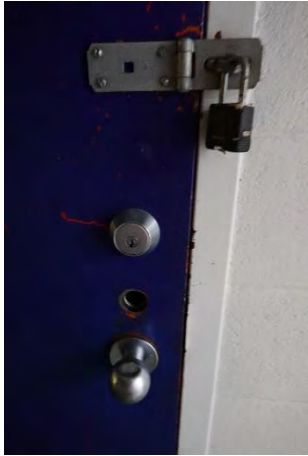
Exit signage and emergency egress lighting achieved with battery back-up fixtures installed in the corridors. Proper coverage should be confirmed and additional fixtures may need to be added. The existing fixtures are in fair condition.



Existing Facility Systems Evaluation: Mechanical, Plumbing, Fire Protection Electrical

- **Recommended Replacement/Corrective Work Summary:**
 - **Mechanical:**
 - *Replace the roof top HVAC equipment including related electrical*
 - ***Anticipated Cost of Replacement/Corrective Work: \$523,904 to \$608,861***
 - **Plumbing:**
 - *Replace vitreous china fixtures in detention holding areas with stainless steel fixtures and reinforce wall anchoring system.*
 - *Continue maintenance of under slab sewer piping.*
 - ***Anticipated Cost of Replacement/Corrective Work: \$129,500 to \$150,500.***
 - **Fire Protection:**
 - *Install fire alarm system.*
 - *Install code compliant automatic fire suppression/sprinkler system.*
 - ***Anticipated Cost of Replacement/Corrective Work: \$146,354 to \$170,087.***
 - **Electrical:**
 - *Replace all light fixtures, upgrade lighting controls.*
 - ***Anticipated Cost of Replacement/Corrective Work: \$75,000 to \$125,000.***
 - ***Maintenance (Not included in cost of corrective work):***
 - *Quarterly thermographic scanning of power distribution equipment: \$6,000 to \$10,000 per year. \$60,000 to \$80,000 for 10 years.*
 - *Monthly testing of back-up generator and continue regular maintenance: \$10,000 to \$15,000 per year. \$100,000 to \$150,000 for 10 years.*

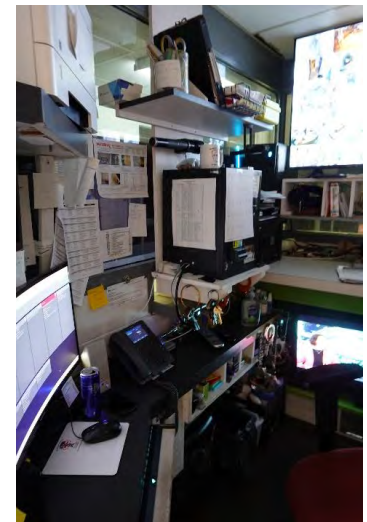
Existing Facility Systems Evaluation: Detention & Security



- **Detention Equipment:**
 - *Hardware:*
 - *Locks are old and difficult to repair.*
 - *Poor to Fair condition.*
 - *Hardware well worn, but functioning.*
 - *High traffic doors should be serviced.*
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- **Existing System/Major Component Summary:**
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 - *New data equipment racks and data cabling were installed.. The new equipment appears to be properly installed and in good condition. Outdated telephone terminal blocks also remain in the building.*
- **Recommended Replacement/Corrective Work Summary**
 - *Integrate systems, configure consoles*
- **Anticipated Cost of Replacement/Corrective Work Summary**
 - *Item: \$40,000 to \$160,000*



Existing Facility Systems Evaluation: Site



- **Existing System/Major Component Summary:**
 - *Perimeter concrete curbs show significant signs of deterioration – By City.*
 - *South retaining wall shows signs of deterioration.*
- **Recommended Replacement/Corrective Work Summary:**
 - *Structurally stabilize, patch and paint south retaining wall.*
- **Anticipated Cost of Replacement/Corrective Work Summary:**
 - *\$4,700 to \$5,300*

Existing Systems Evaluation – Probable Cost Summary

Ref.	Component	Low	High
A.	Structural/Architecture	\$403,728	\$469,198
B.	Mechanical	\$523,904	\$608,861
C.	Plumbing	\$151,758	\$176,367
D.	Fire Protection	\$292,708	\$340,174
E.	Electrical	\$75,000	\$125,000
F.	Security Electronics/Systems	\$45,000	\$100,000
G.	Site	\$4,700	\$5,300
Total		\$1,496,798	\$1,824,900

Evaluation Summary

- **Space Evaluation:**

- Significant Space Deficiency: Overall Rating of 3.0 on a scale of 0 – 10 (Unsuitable).
- Significant Number of Beds Deficiency:
 - Currently 30 Beds, Adjust to 51
- Numerous ADA Non-Compliant Spaces.
- Numerous Spaces Too Small and Non-Compliant with Space Standards.
- Some Required Spaces Not Provided.
- Lack of Storage Throughout.

- **Operational Evaluation:**

- Linear Cell Block Configuration.
- Lack of Visual Monitoring from a Single Control Room
- Lack of Contiguous Department/Division Spaces.
- Limited Availability of Outdoor Recreation Due To Inclement Weather Conditions.

Mission Statement

Community Engagement at the Houghton County Sheriff's Office is a foundational element of our ability to realize our organizational mission. Embracing our role as a service organization, "engagement" describes how we perform our duties, and how we interact with and relate to the residents of Houghton County. We believe that we exist to serve our community, making our community a safer place and contributing to the improvement of everyone's quality of life. Community Engagement isn't just a program. It is how we communicate, build trust, identify needs, and collaboratively work side by side with our partners to create interventions and provide solutions.

Whether it's a small intimate setting where a deputy sits with a community member over lunch or a room full of people discussing solutions, our office has worked tirelessly to balance traditional law enforcement responses with non-traditional responses and to enhance what you see when you look at the badge. All of this was designed as a systemic approach to engaging our community. We are not just the Sheriff's Office; we are the People's Sheriff's office.

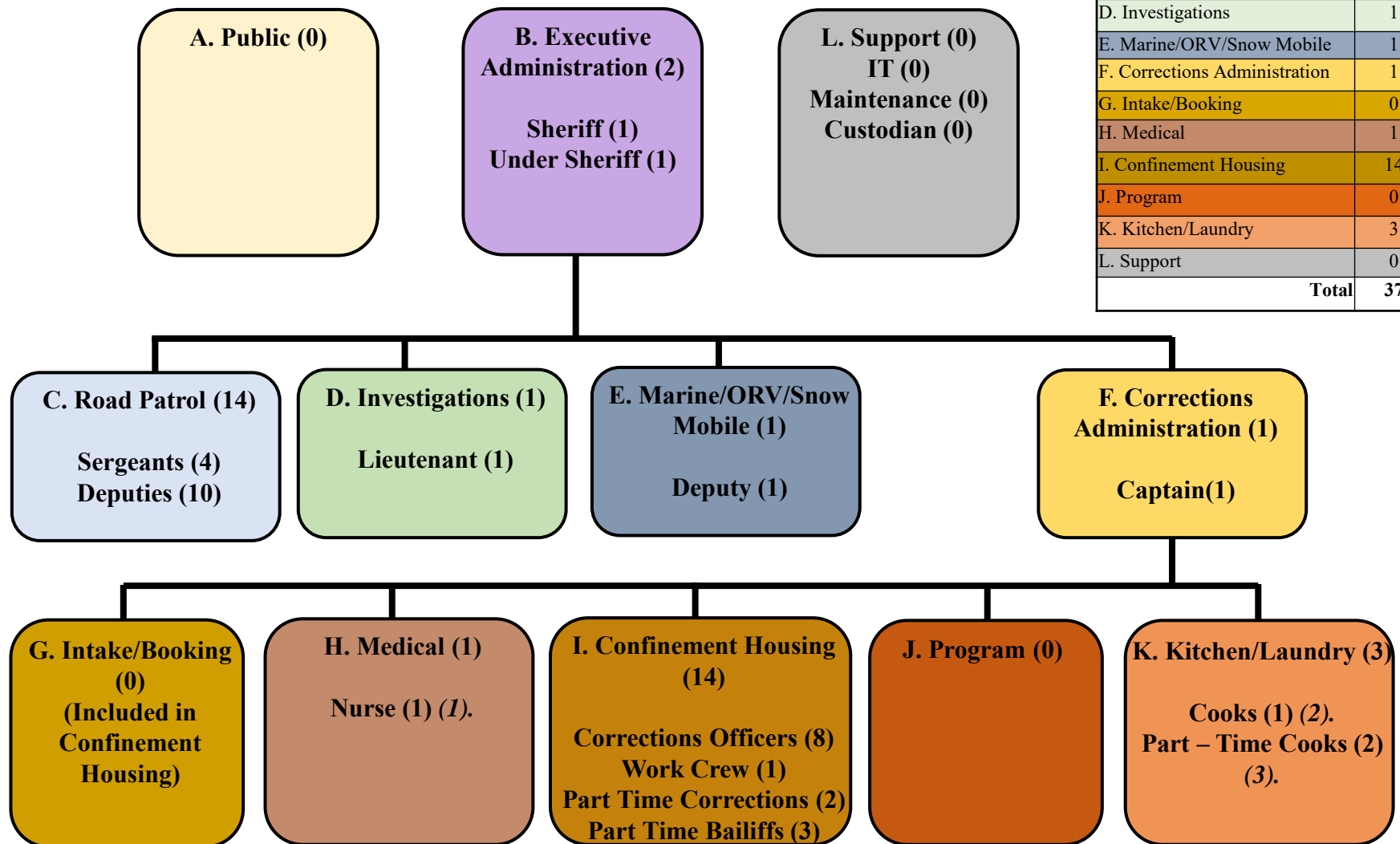
Space and Operational Deficiencies Are Obstacles to Achieving the Mission.



Staffing Information

Staffing Diagram Completion Instructions:						B. Executive Administration				L. Support		Current Staff Summary		Notes				
1. Use position title only, no staff names.						Staff	No.	Civilians	No.	Staff	No.	Division/Department	Staff					
2. If you do not have staff position titles listed insert 0 in No. column						Sheriff	1	Admin. Assist.		Bldg. Maintenance		A. Public	0					
3. If you have the staff position title listed insert the number of staff associated with that title in the No. column						Under Sheriff	1	Receptionist		Custodian		B. Executive Administration	2					
								Clerks		IT Supervisor		C. Road Patrol	14					
4. If you have a staff position that is not listed, insert title and the number of staff associated with that title in the No. column.								Transcription		IT		D. Investigations	1					
								Victims Services				E. Marine/ORV/Snow Mobile	1					
5. Received staff numbers have been included. Range of staff numbers submitted for a position title have not been included. Insert one total number for each staff position only.								Records Clerk				F. Corrections Administration	1					
								Financial Officer				G. Intake/Booking	0					
6. Staff numbers for information not received has been included to build the formulas. Review these numbers and change to 0 if no staff or to the actual number of staff associated with that position.								Grant Mgr.				H. Medical	1	(1).				
								Human				I. Confinement Housing	14					
7. If a staff position is outsourced or contracted insert the no. followed by a C in the No. column.								IT				J. Program	0					
8. If you have a staff position currently vacant but funded, insert the no. followed by a F in the No. column.												K. Kitchen/Laundry	3	(2), (3).				
9. Comments or clarifications can be inserted in the column and rows to the right where indicated.						Subtotal	2		0			L. Support	0					
10. If you have any questions or we can be of assistance, feel free to call Bret Dodd (317-650-6304)						Total			2	Total		0	Total		37			
Under Sheriff						Corrections Division (Jail Commander/Captain)												
E. Marine/ORV/Snow Mobile		D. Investigations		C. Road Patrol		F. Corrections Administration		G. Intake/Booking		H. Medical		K. Kitchen/Laundry		J. Program		I. Confinement Housing		
Staff	No.	Staff	No.	Staff	No.	Staff	No.	Staff	No.	Staff	No.	Staff		Staff	No.	Staff	No.	
Lieutenant		Lieutenant	1	Lieutenant		Captain	1	Corrections Officer		Doctor		Cook (2).	1	Mental Health		Corrections Officer	8	
Corporal		Corporal		Sergeants	4	Lieutenant		Classification		Nurse (1).	1	Assist. Cook		Counselor		Work Crew	1	
Sergeant		Upset Corporal		Court Security		Sergeant		Property Room Clerk		Clerk		Dietitian		Psychologist				
Deputy	1	CID Secretary		Deputies	10	Corporal		Mental Health Screening		Clerical		Canteen/ Commissary Clerk						
		Sergeant		Fleet Maintenance		Admin. Assist.				Mental Health		Food Service						
		Crime Scene		K-9		Records Clerk												
		Detectives		Animal Control		Classification												
				SRO		Visitation Clerk												
				Mechanic		Victims Advocate												
						Matron												
						Transportation										Part Time Bailiffs	3	
Part Time		Part time		Part Time		Part Time				Part Time		Part time Cook (3).	2	Part time		Part Time Corrections Officers	2	
Subtotal	1		1		14		1		0		1		3		0		14	
Total						Total										Total		19
(1). Nurse is contracted 14 hours per week through Advanced Correctional						(2). Cook is employed by the county.						(3). Part Time Cook paid out of sheriff's office budget						









Staffing Diagram



Notes:

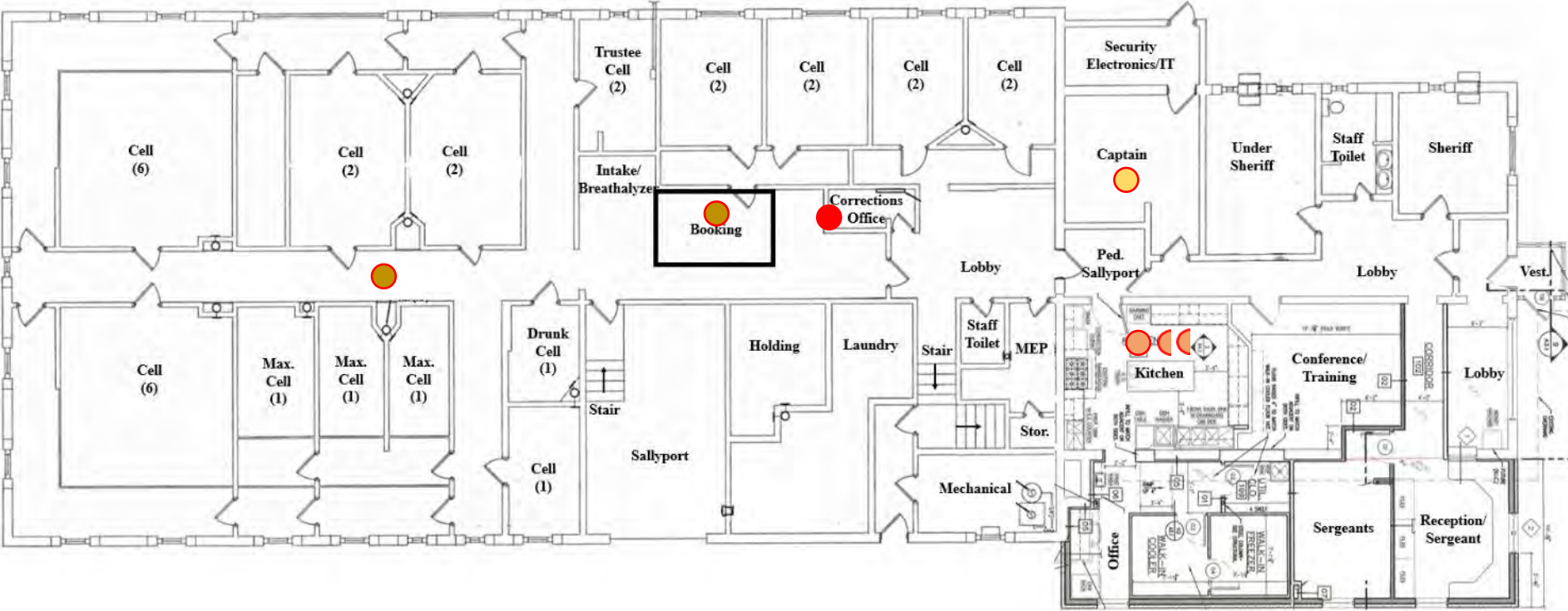
- (1). Nurse is contracted 14 hours per week through Advanced Correctional Healthcare.
- (2). Cook is employed by the county.
- (3). Part Time Cook paid out of sheriff's office budget.

Shift Structure: Corrections - Day Shift

Desig.	Staff/Position	Shift 1	Shift 2
	Administration	1	1
	Central Control	1	1
	Intake/Booking	1	1
	Confinement Officers	2	2
	Part – Time Bailiffs	3	3
	Kitchen/Laundry	3	3
	Medical	1	1
	Program	0	0
Subtotal Shift		12	12
Total Shifts (2)		24	

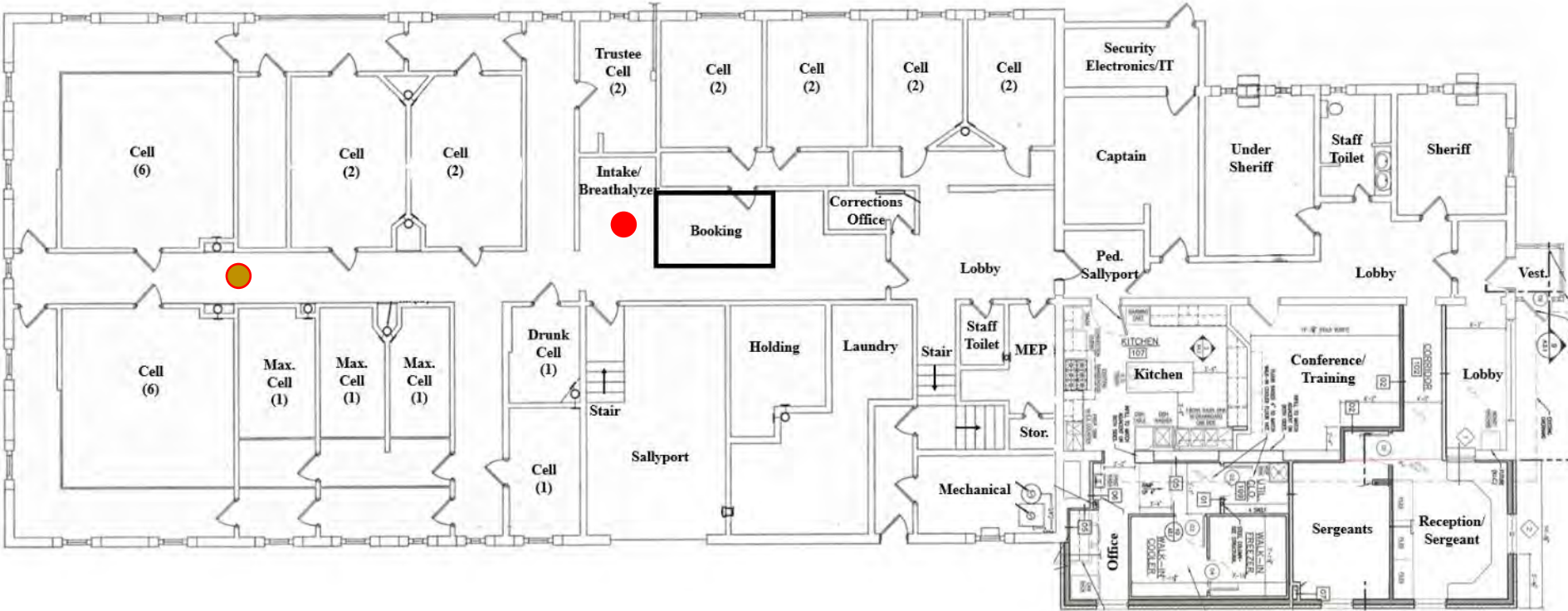

Part-Time Bailiffs
(Court House)


Part-Time Nurse
(Basement)



Shift Structure: Corrections - Night Shift

Desig.	Staff/Position	Shift 1	Shift 2
●	Administration	0	0
●	Central Control	1	1
●	Intake/Booking	1	1
●	Confinement Officers	1	1
●	Part – Time Bailiffs	0	0
●	Kitchen/Laundry	0	0
●	Medical	0	0
●	Program	0	0
Subtotal Shift		3	3
Total Shifts (2)		6	



Population, Staff and Space Projection Modeling

Houghton County Justice Center Master Plan Study

Population, Staff and Space Projection Modeling

Component	2024 Adjusted DGSF		2034										2044										Notes:
			Exponential		Power		Linear		Logarithmic		Average		Exponential		Power		Linear		Logarithmic		Average		
	Pop.	37,957	Pop.	38,371	Pop.	37,878	Pop.	38,369	Pop.	37,875	Pop.	38,123	Pop.	38,507	Pop.	37,930	Pop.	38,499	Pop.	37,928	Pop.	38,216	
	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	Staff	Space	
I. Sheriff's Office																							
A. Public	0.0	1,251	0.0	1,265	0.0	1,249	0.0	1,265	0.0	1,248	0.0	1,257	0.0	1,269	0.0	1,250	0.0	1,269	0.0	1,250	0.0	1,260	
B. Executive Administration	2.0	3,047	2.0	3,080	2.0	3,041	2.0	3,080	2.0	3,041	2.0	3,061	2.0	3,091	2.0	3,045	2.0	3,091	2.0	3,045	2.0	3,068	
C. Road Patrol	14.0	5,655	14.2	5,717	14.0	5,643	14.2	5,716	14.0	5,643	14.1	5,680	14.2	5,737	14.0	5,651	14.2	5,736	14.0	5,651	14.1	5,694	
D. Investigations	1.0	3,520	1.0	3,559	1.0	3,513	1.0	3,559	1.0	3,513	1.0	3,536	1.0	3,571	1.0	3,518	1.0	3,571	1.0	3,518	1.0	3,544	
E. Marine/ORV/Snow Mobile	1.0	2,200	1.0	2,224	1.0	2,195	1.0	2,224	1.0	2,195	1.0	2,210	1.0	2,232	1.0	2,198	1.0	2,231	1.0	2,198	1.0	2,215	
Subtotal	18.0	15,674	17.2	15,845	17.0	15,641	18.2	15,844	17.0	15,640	17.1	15,742	17.2	15,901	17.0	15,663	18.3	15,898	17.0	15,662	17.1	15,781	
II. Corrections																							
F. Administration	1.0	1,213	1.0	1,226	1.0	1,210	1.0	1,226	1.0	1,210	1.0	1,218	1.0	1,230	1.0	1,212	1.0	1,230	1.0	1,212	1.0	1,221	
G. Intake/Booking	0.0	2,904	0.0	2,936	0.0	2,898	0.0	2,936	0.0	2,898	0.0	2,917	0.0	2,946	0.0	2,902	0.0	2,946	0.0	2,902	0.0	2,924	
H. Medical	1.00	764	1.0	773	1.0	763	1.0	773	1.00	763	1.0	768	1.0	775	1.0	764	1.0	775	1.00	764	1.0	770 (1).	
I. Confinement Housing	14.0	7,098	14.2	7,175	14.0	7,083	14.2	7,175	14.0	7,083	14.1	7,129	14.2	7,201	14.0	7,093	14.2	7,199	14.0	7,093	14.1	7,146	
J. Program	0.0	2,415	0.0	2,441	0.0	2,410	0.0	2,441	0.0	2,410	0.0	2,426	0.0	2,450	0.0	2,413	0.0	2,449	0.0	2,413	0.0	2,431	
K. Kitchen/Laundry	3.0	1,622	3.0	1,639	3.0	1,618	3.0	1,639	3.0	1,618	3.0	1,629	3.0	1,645	3.0	1,620	3.0	1,645	3.0	1,620	3.0	1,633 (2). (3).	
Subtotal	19.00	16,016	19.2	16,191	19.0	15,983	19.2	16,190	18.96	15,981	19	16,086	19.3	16,248	19.0	16,005	19.3	16,245	19.0	16,004	19.1	16,125	
III. Support																							
L. Support	0.0	2,517	0.0	2,544	0.0	2,512	0.0	2,544	0.0	2,511	0.0	2,528	0.0	2,553	0.0	2,515	0.0	2,553	0.0	2,515	0.0	2,534	
Subtotal	0.0	2,517	0.0	2,544	0.0	2,512	0.0	2,544	0.0	2,511	0.0	2,528	0.0	2,553	0.0	2,515	0.0	2,553	0.0	2,515	0.0	2,534	
Total Staff/DGSF	37.00	34,207	36.4	34,580	35.9	34,135	37.4	34,578	35.92	34,133	36.2	34,356	36.5	34,702	36.0	34,182	37.5	34,695	35.97	34,180	36.2	34,440	
Total Building Gross Square Feet (BGSF)	10%	37,627	10%	38,038	10%	37,549	10%	38,036	10%	37,546	10%	37,792	10%	38,172	10%	37,600	10%	38,165	10%	37,599	10%	37,884	

General Notes:

1. Part time Staff at 1 each
2. DGSF = Department Gross Square Feet: Net square footage of occupied space within a Department + Walls + Circulation within the Department.
3. BGSF = DGSF + Exterior Walls and Circulation to Each Department

2034 Planning Model2044 Planning Model

Table Notes:

2024:

(1). Nurse is contracted 14 hours per week through Advanced Correctional Healthcare

(2). Cook is employed by the county.

(3). Part Time Cook paid out of sheriff's office budget.

Algorithm	2024	2034	2044
Exponential	37,959	38,371	38,507
Power	37,688	37,878	37,930
Linear	37,957	38,369	38,499
Logarithmic	37,688	37,875	37,928
Average	37,823	38,123	38,216
	Planning Model		

Population Projection Modeling Summary

Growth Rate Classification	Type
Low	
Low to Moderate	9
Moderate	
High	

Algorithm	2021	2031	2041
Exponential	37,649	38,371	38,917
Powers	37,688	37,878	37,939
Linear	37,957	38,369	38,499
Logarithmic	37,588	37,873	37,928
Average	37,823	38,123	38,215
Planning Model			



	<i>Population Projection Model</i>
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Staff Program Summary

Houghton County Justice Center Master Plan Study Staff Program Summary

Department: All

Division: All

Staff Positions		2024 Staff	Projected Staff				Notes
		Number	2029	2034	2039	2044	
I. Sheriff's Office							
A.	Public	0.0	0.0	0.0	0.0	0.0	
B.	Executive Administration	2.0	2.0	2.0	2.0	2.0	
C.	Road Patrol	14.0	14.0	14.0	14.0	14.0	
D.	Investigations	1.0	1.0	1.0	1.0	1.0	
E.	Marine/ORV/Snow Mobile	1.0	1.0	1.0	1.0	1.0	
Subtotal		18.0	18.0	18.0	18.0	18.0	
II Corrections							
F.	Administration	1.0	1.0	1.0	1.0	1.0	
G.	Intake/Booking	0.0	0.0	0.0	0.0	0.0	
H.	Medical	1.0	1.0	1.0	1.0	1.0	(1).
I.	Confinement Housing	14.0	14.0	14.0	14.0	14.0	*2).
J.	Program	0.0	0.0	0.0	0.0	0.0	
K.	Kitchen/Laundry	3.0	3.0	3.0	3.0	3.0	(3)., (4).
Subtotal		19.0	19.0	19.0	19.0	19.0	
III. Support							
L.	Support	0.0	0.0	0.0	0.0	0.0	
Subtotal		0.0	0.0	0.0	0.0	0.0	
Total		37.0	37.0	37.0	37.0	37.0	

Table Notes:

(1). Nurse is contracted 14 hours per week through Advanced Correctional Healthcare

(2). Includes 2 part-time corrections officers at 1 each and 3 part-time bailiffs at 1 each.

(3). Cook is employed by the county.

(4). Part Time Cook paid out of sheriff's office budget.

Architectural Space Program Summary

Houghton County Justice Center Master Plan Study

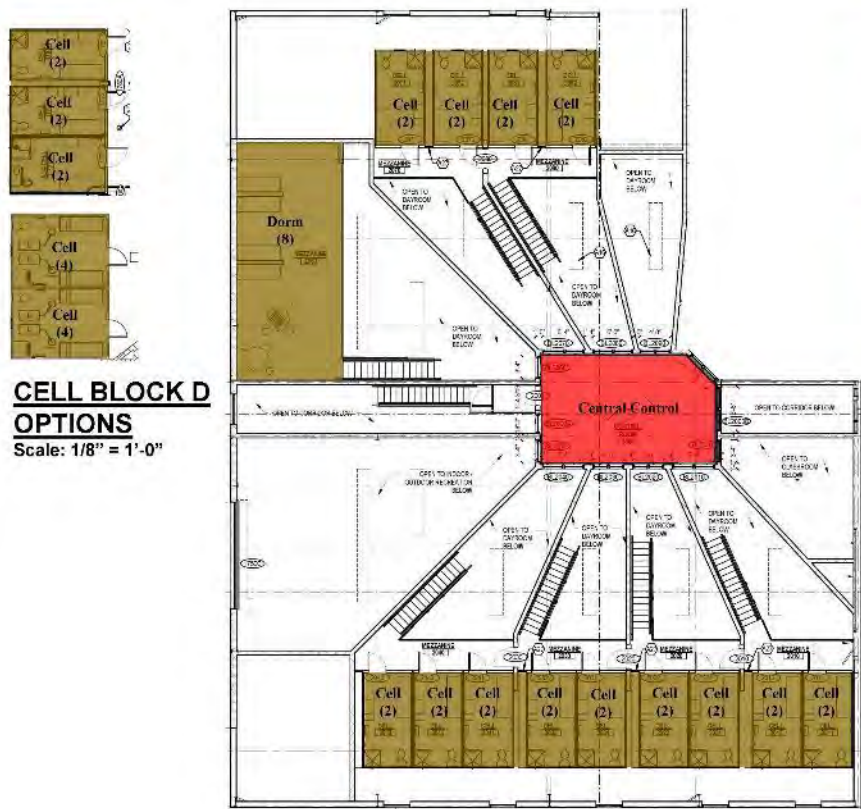
Architectural Space Program: 2034 and 2044 Summary

Department: All

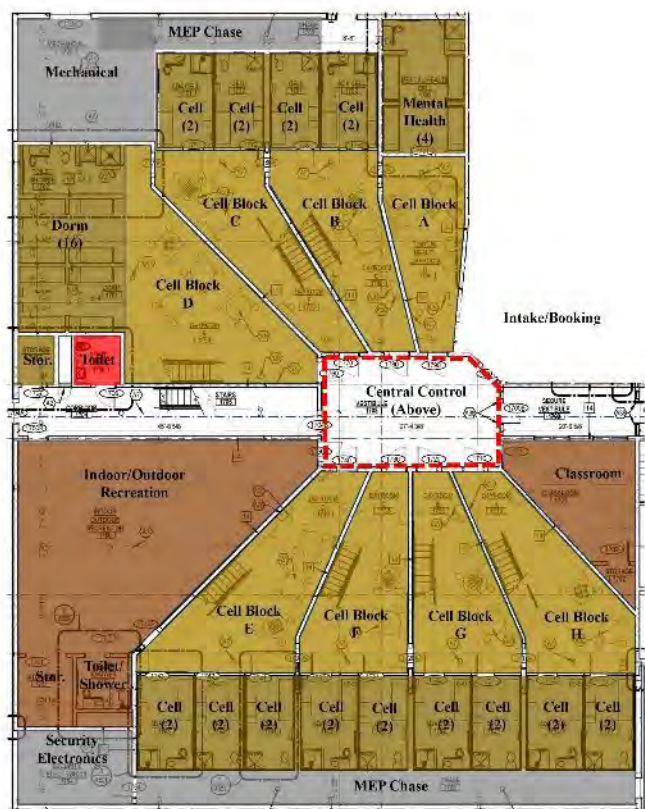
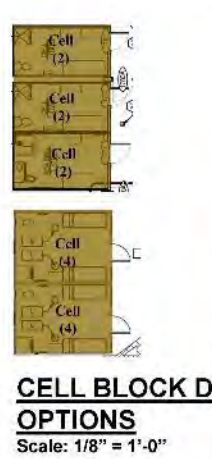
Division: All

No.	Component	Adjacency: Refer to Each Department/Division								General Remarks:	
		2034 Space Program				2044 Space Program				1. 2034: 60 Beds - General Population	
		Staff	No. of Spaces	Total NSF	Total DGFSF	Staff	No. of Spaces	Total NSF	Total DGFSF	2. 2044: 70 Beds - General Population	
I.	Sheriff's Office										
A.	Public	0.0	8	1,088	1,251	0.0	8	1,088	1,251	Refer to Each Division	
B.	Executive Administration	2.0	17	2,344	3,047	2.0	18	2,344	3,047	Refer to Each Division	
C.	Road Patrol	14.0	15	4,039	5,251	14.0	15	4,039	5,251	Refer to Each Division	
D.	Investigations	1.0	25	2,708	3,520	1.0	25	2,708	3,520	Refer to Each Division	
E.	Marine/ORV/Snow Mobile	1.0	1	2,000	2,200	1.0	1	2,000	2,200	Refer to Each Division	
		18.0	66	12,179	15,270	18.0	67	12,179	15,270		
II.	Jail										
F.	Corrections Administration	1.0	8	933	1,213	1.0	8	933	1,213	Refer to Each Division	
G.	Intake/Booking	0.0	20	2,180	2,834	0.0	20	2,180	2,834	Refer to Each Division	
H.	Medical	1.0	9	588	764	1.0	9	588	764	Refer to Each Division	
I.	Confinement/Housing	14.0	128	6,606	9,248	14.0	136	7,142	9,999	Refer to Each Division	
J.	Program	0.0	8	2,080	2,912	0.0	8	2,230	3,122	Refer to Each Division	
K.	Kitchen/Laundry	3.0	10	1,548	1,780	3.0	9	1,668	1,918	Refer to Each Division	
	Subtotal	19.00	183	13,935	18,752	19.00	190	14,741	19,850		
III.	Support										
L.	Support Space	0.0	8	1,940	2,134	0.0	8	2,040	2,244	Refer to Each Division	
	Subtotal	0.0	8	1,940	2,134	0.0	8	2,040	2,244		
										Notes:	
										2024 Staff: 37.0	
	Total	37.0	257	28,054		37.0	265	28,960		Current BGFSF: 16,448	
	Total Departmental Gross Square Feet (DGFSF)				36,155				37,364	2024 Adjusted BGFSF: 36,692	
	Building Grossing Factor				10%				3,736	2034 BGFSF	
	Total Building Gross Square Feet (BGFSF)				39,771				41,100	2044 BGFSF	

Architectural Space Program Summary – Example Cell Pod



MEZZANINE PLAN
Scale: 1/8" = 1'-0"



Cell Block	Beds		
	Option 1	Option 2	Option 3
A	4	4	4
B	8	8	8
C	8	8	8
D	24	16	12
E	12	12	12
F	8	8	8
G	8	8	8
H	8	8	8
Total	80	72	68
D	Dorm	4 Man	2 man

Architectural Space Program Summary – Work Camp

Houghton County Justice Center Master Plan Study

Architectural Space Program: Work Camp Summary

Department: II. Jail

Division: M. Work Camp

No.	Component	NSF	2034 Space Program				2044 Space Program				Notes:
			Staff	No. of Spaces	Total NSF	Total DGSF	Staff	No. of Spaces	Total NSF	Total DGSF	
II.	Jail										
M.	Work Camp		0.0	77	4,026						
Total Departmental Gross Square Feet (DGSF)						5,144					
Building Grossing Factor					10%	514					
Total Building Gross Square Feet (BGSF)						5,658					

- *Defined as Option*
- *2034 Architectural Space Program Based Upon 24 Males and 10 Females*

Existing Adjusted, Projected and Programmed Evaluation

Houghton County Justice Center Master Plan Study														
2024 Adjusted, Projected and Programmed Evaluation														
Component	2024 Existing		2024 Adjusted		Projected				Programmed				General Notes:	
	Staff	NSF	NSF	DGSF	2034		2044		2034		2044		1.	< 5%: No to Minor Deviation
					Staff	DGSF	Staff	DGSF	Staff	DGSF	Staff	DGSF	2.	> 5%: Major Deviation
I. Sheriff's Office													Notes:	Deviation
A. Public	0.0	274	1,088	1,251	0.0	1,265	0.0	1,269	0.0	1,251	0.0	1,251		98.6% < 5%: Minor Deviation
B. Executive Administration	2.0	1,674	2,344	3,047	2.0	3,080	2.0	3,091	2.0	3,047	2.0	3,047		98.6% < 5%: Minor Deviation
C. Road Patrol	14.0	2,381	4,350	5,655	14.2	5,716	14.2	5,736	14.0	5,251	14.0	5,251		91.5% < 5%: Minor Deviation
D. Investigations	1.0	1,138	2,708	3,520	1.0	3,559	1.0	3,571	1.0	3,520	1.0	3,520		98.6% < 5%: Minor Deviation
E. Marine/ORV/Snow Mobile	1.0	2,042	2,000	2,200	1.0	2,224	1.0	2,231	1.0	2,200	1.0	2,200		98.6% < 5%: Minor Deviation
Subtotal	18.0	7,509	12,490	15,674	18.2	15,844	18.3	15,898	18.0	15,270	18.0	15,270		96.0% < 5%: Minor Deviation
II. Corrections														
F. Administration	1.0	216	933	1,213	1.0	1,226	1.0	1,230	1.0	1,213	1.0	1,213		98.6% < 5%: Minor Deviation
G. Intake/Booking	0.0	653	2,234	2,904	0.0	2,936	0.0	2,946	0.0	2,834	0.0	2,834		96.2% < 5%: Minor Deviation
H. Medical	1.00	98	588	764	1.01	773	1.01	775	1.00	764	1.00	764		98.6% < 5%: Minor Deviation
I. Confinement Housing	14.0	2,366	5,070	7,098	14.2	7,175	14.2	7,199	14.0	9,248	14.0	9,999	(1).	138.9% > 5%: Major Deviation
J. Program	0.0	663	1,725	2,415	0.0	2,441	0.0	2,449	0.0	2,912	0.0	3,122	(2).	127.5% > 5%: Major Deviation
K. Kitchen/Laundry	3.0	647	1,410	1,622	3.0	1,639	3.0	1,645	3.0	1,780	3.0	1,918	(3).	116.6% > 5%: Major Deviation
Subtotal	19.0	4,643	11,960	16,016	19.2	16,190	19.27	16,245	19.0	18,752	19.0	19,850		122.2% > 5%: Major Deviation
III. Support														
L. Support	0.0	899	2,288	2,517	0.0	2,544	0.0	2,553	0.0	2,134	0.0	2,244	(4).	87.9% > 5%: Major Deviation
Subtotal	0.0	899	2,288	2,517	0.0	2,544	0.0	2,553	0.0	2,134	0.0	2,244		87.9% > 5%: Major Deviation
Total Staff, NSF and DGSF	37.0	13,051	26,738	34,207	37.4	34,578	37.5	34,695	37.0	36,155	37.0	37,364		107.7% > 5%: Major Deviation
Total BGSF	10%	16,488	10%	37,627	10%	38,036	10%	38,165	10%	39,771	10%	41,100		107.7% > 5%: Major Deviation
General Notes:														
1. 2024 adjusted beds - 51, 2034 programmed beds - 60, 2044 programmed beds - 70														
Evaluation Notes:														
(1). Increase in beds from adjusted 51 to 60 in 2034 and 70 Beds in 2044.														
(2). Increase in Indoor/Outdoor Recreation due to number of programmed inmates.														
(3). Increase in Kitchen due to number of programmed inmates.														
(4). Assumes 1 story new construction, elimination of vertical circulation square footage.														

Parking Projections

Houghton County Justice Center Master Plan Study					
2043 Parking Projections					
Component		Projected Parking			Notes
		Subtotal	Non-Concurrent Use Factor (1).	Total	
Sheriff's Office/Jail					
B.	Executive Administration				
1.	Staff	2	100%	2	
2.	Visitors	4	50%	2	
3.	Special Events/Vehicles	20	50%	10	(1).
C.	Road Patrol				
1.	Staff	14	75%	11	(2).
2.	Visitors	2	50%	1	
3.	Special Events/Vehicles	0	50%	0	
D.	Investigations				
1.	Staff	1	100%	1	
2.	Visitors	1	50%	0.5	
3.	Special Events/Vehicles	0	75%	0	
E.	Marine/ORV/Snow Mobile				
1.	Staff	2	100%	2	
2.	Visitors	0	50%	0	
3.	Special Events/Vehicles	2	100%	2	
F. - K.	Corrections				
1.	Staff	19	75%	14	(2).
2.	Visitors	4	50%	2	
3.	Special Events/Vehicles	0	75%	0	
L.	Support Space				
1.	Staff	0	100%	0	
2.	Visitors	2	50%	1	(3).
3.	Special Events/Vehicles	0	75%	0	
Total Staff Secure Parking - Surface Lot		18	54%	10	
Total Staff Secure Parking		20	100%	20	
Total Visitor		13	50%	7	
Total Special Events/Vehicles		22	55%	12	
Total Parking Spaces		73	66%	48	
General Notes:		Table Notes:			
(1). Non-Concurrent Use Factor assumes the following:		(1). Training event.			
a. Not all parking occurs simultaneously		(2). Considers Shift Overlap of Day and Night Shifts			
30	Secure Parking	(3). Assumes maintenance or repair staff/contractors.			
19	Non-Secure Parking				
		Existing Available			
		On Site Surface Lot Secure		0	
		Dedicated Street Parking		8 +/-	
		Street Parking		8 +/-	
		Remote Site			
		Total		16 +/-	



16 Parking Spaces +/-



294 Parking Spaces +/-

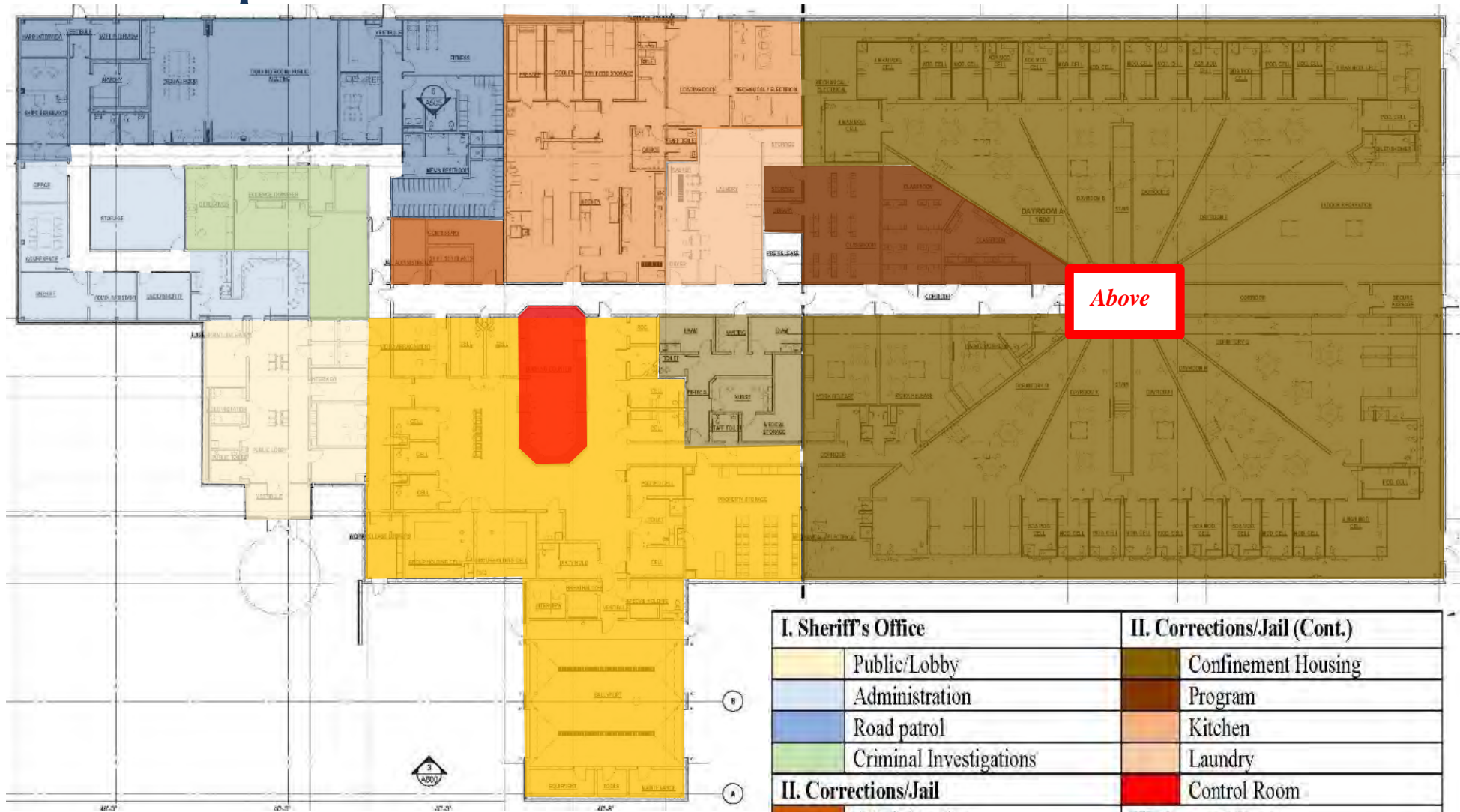
Round Table Discussion: Operations



- **Operational Evaluation:**
 - Linear Cell Block Configuration,
 - Inefficient Confinement Housing/ Cells and Classification Capabilities.
 - Lack of Visual Monitoring from a Single Control Room
 - No Program Rooms.
 - Lack of Contiguous Department/Division Spaces.
 - Limited Availability of Outdoor Recreation Due To Inclement Weather Conditions.
 - Location and Size of Attorney Visitation.
 - Significant Lack of Staff Space and Storage.
 - Many Necessary Spaces Not Present.

Round Table Discussion: *Critical Adjacencies*

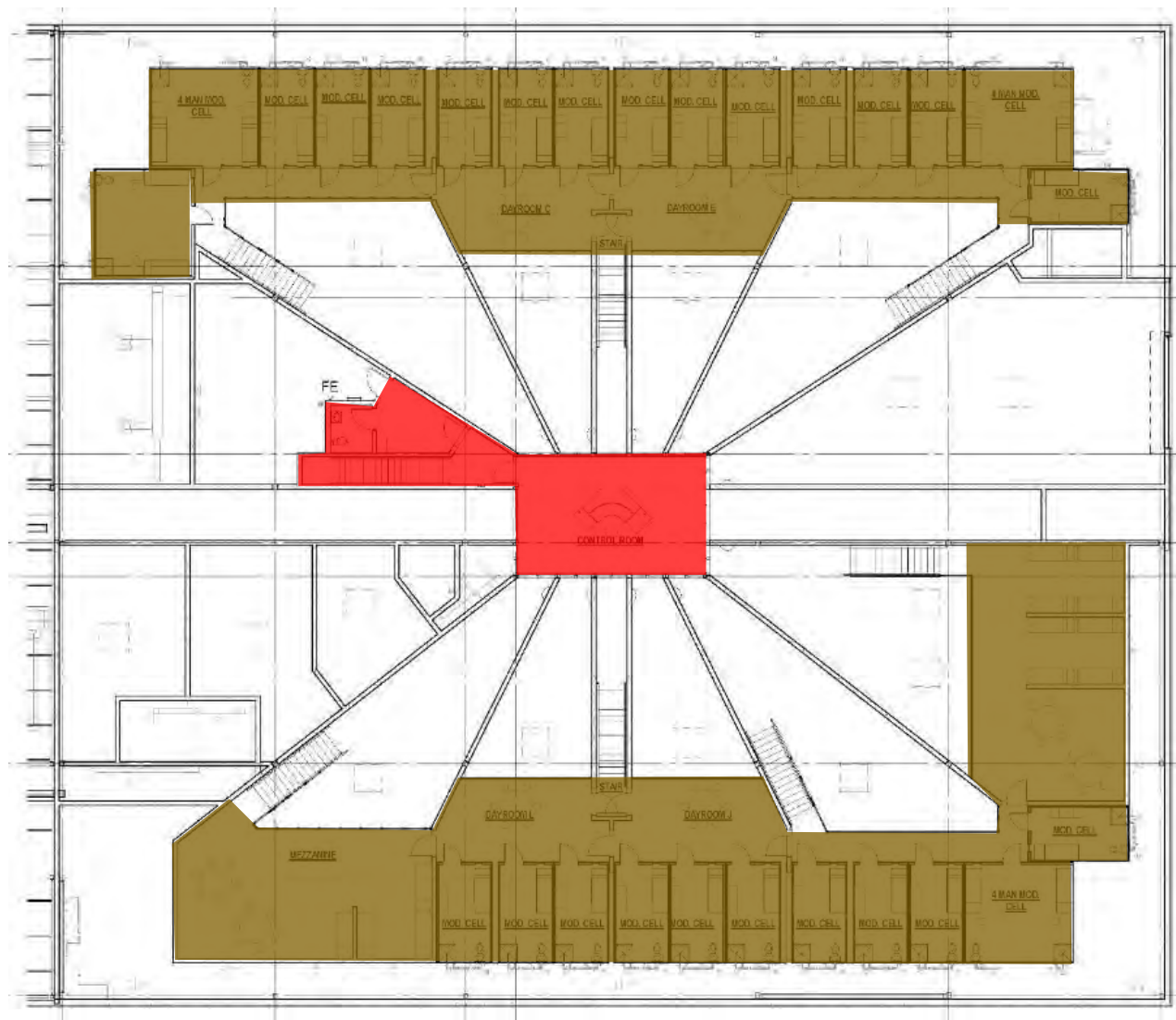
- What are critical adjacencies to efficient and effective operations?



Example Branch County Jail First Floor Plan

I. Sheriff's Office		II. Corrections/Jail (Cont.)	
	Public/Lobby		Confinement Housing
	Administration		Program
	Road patrol		Kitchen
	Criminal Investigations		Laundry
II. Corrections/Jail			Control Room
	Administration	III. Support Space	
	Intake/Booking/Property Storage		IT/Technology
	Medical		MEP/Storage

Round Table Discussion: *Critical Adjacencies*



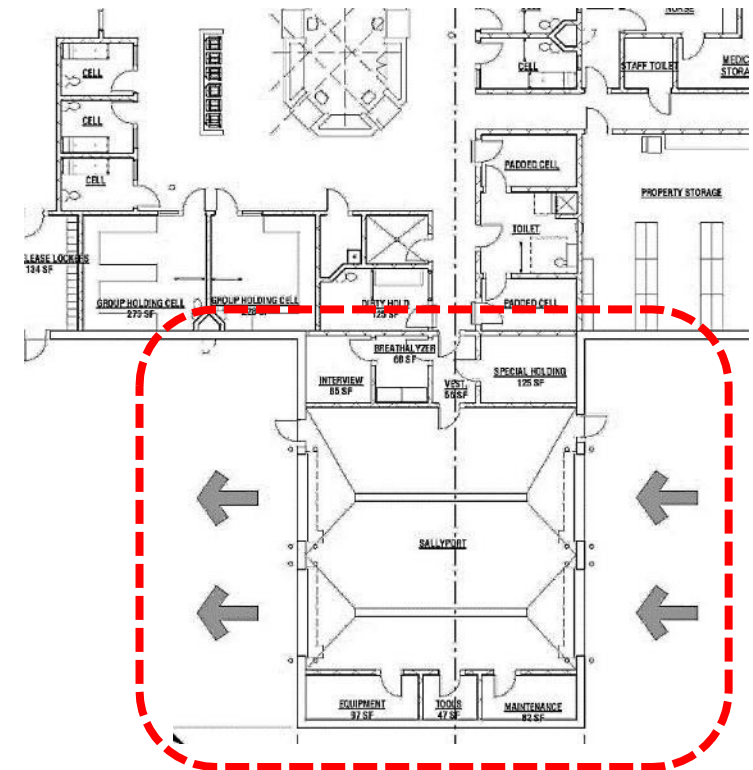
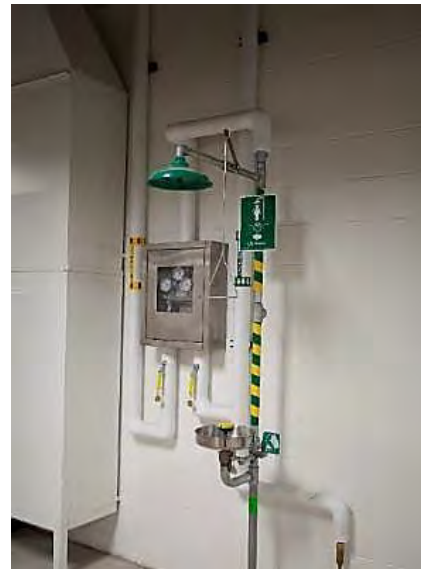
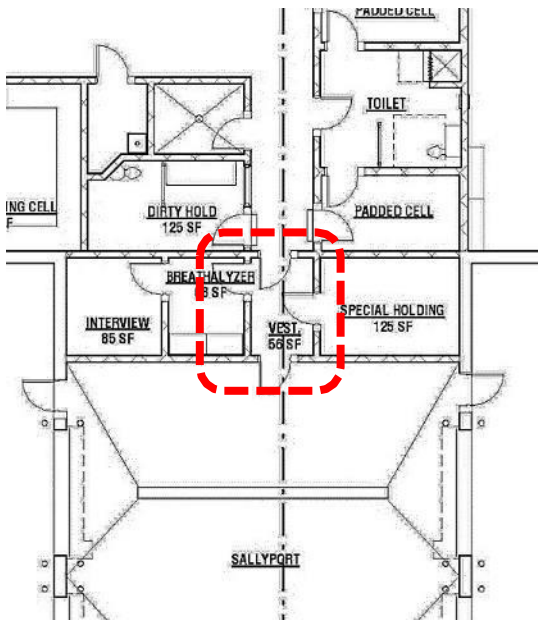
I. Sheriff's Office	
	Public/Lobby
	Administration
	Road patrol
	Criminal Investigations
II. Corrections/Jail	
	Administration
	Intake/Booking/Property Storage
	Medical
	Confinement Housing
	Program
	Kitchen
	Laundry
	Control Room
III. Support Space	
	IT/Technology
	MEP/Storage

Example Branch County Jail Housing Pod Mezzanine Plan

Round Table Discussion:

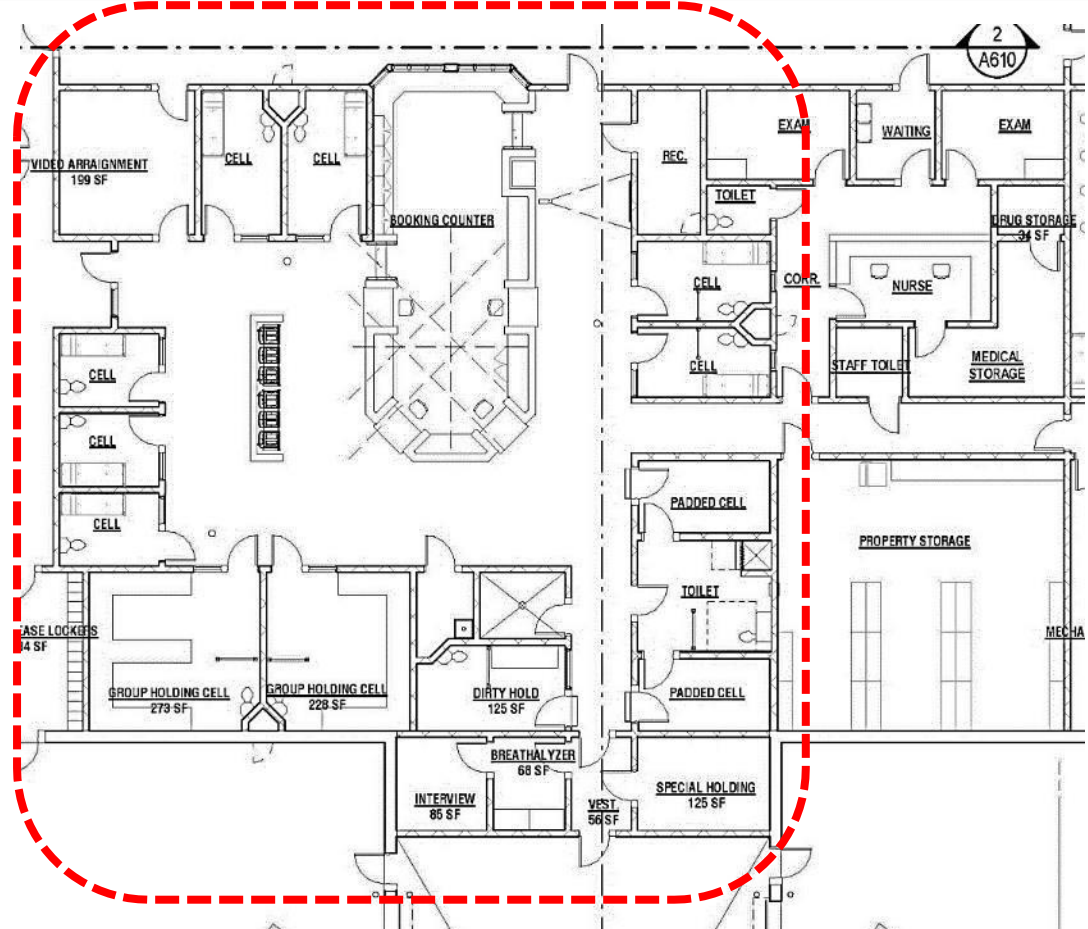
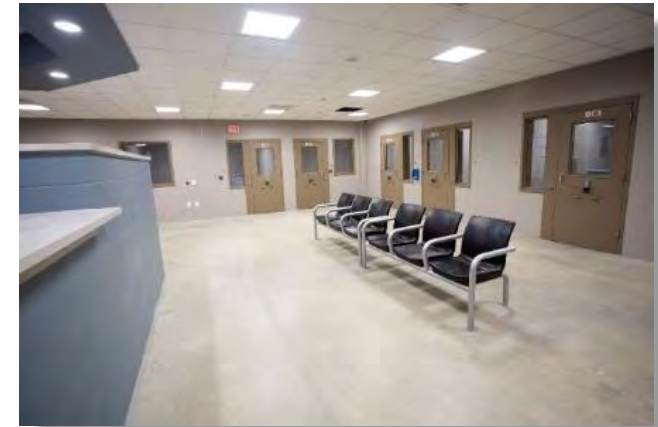


A. Security Garage



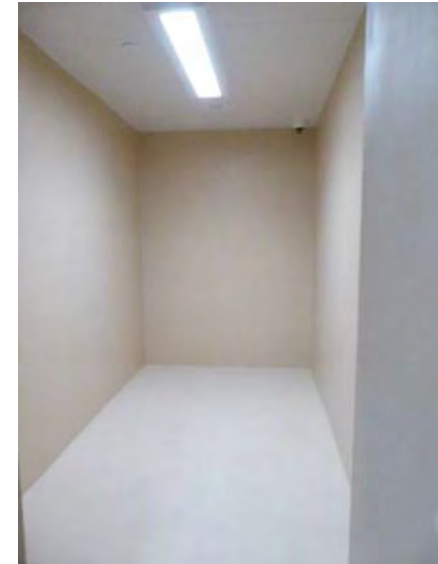
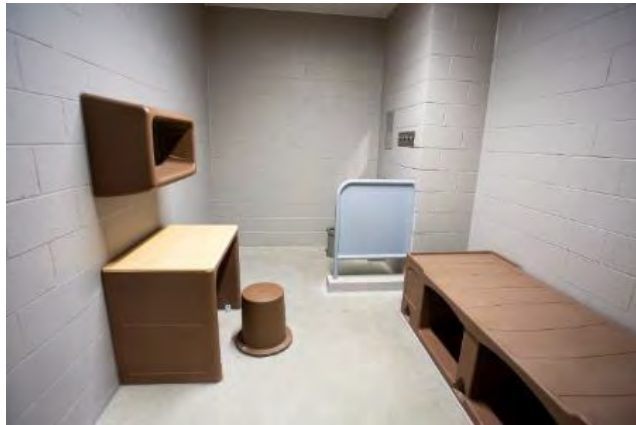
B. Safety Vestibule

Round Table Discussion:



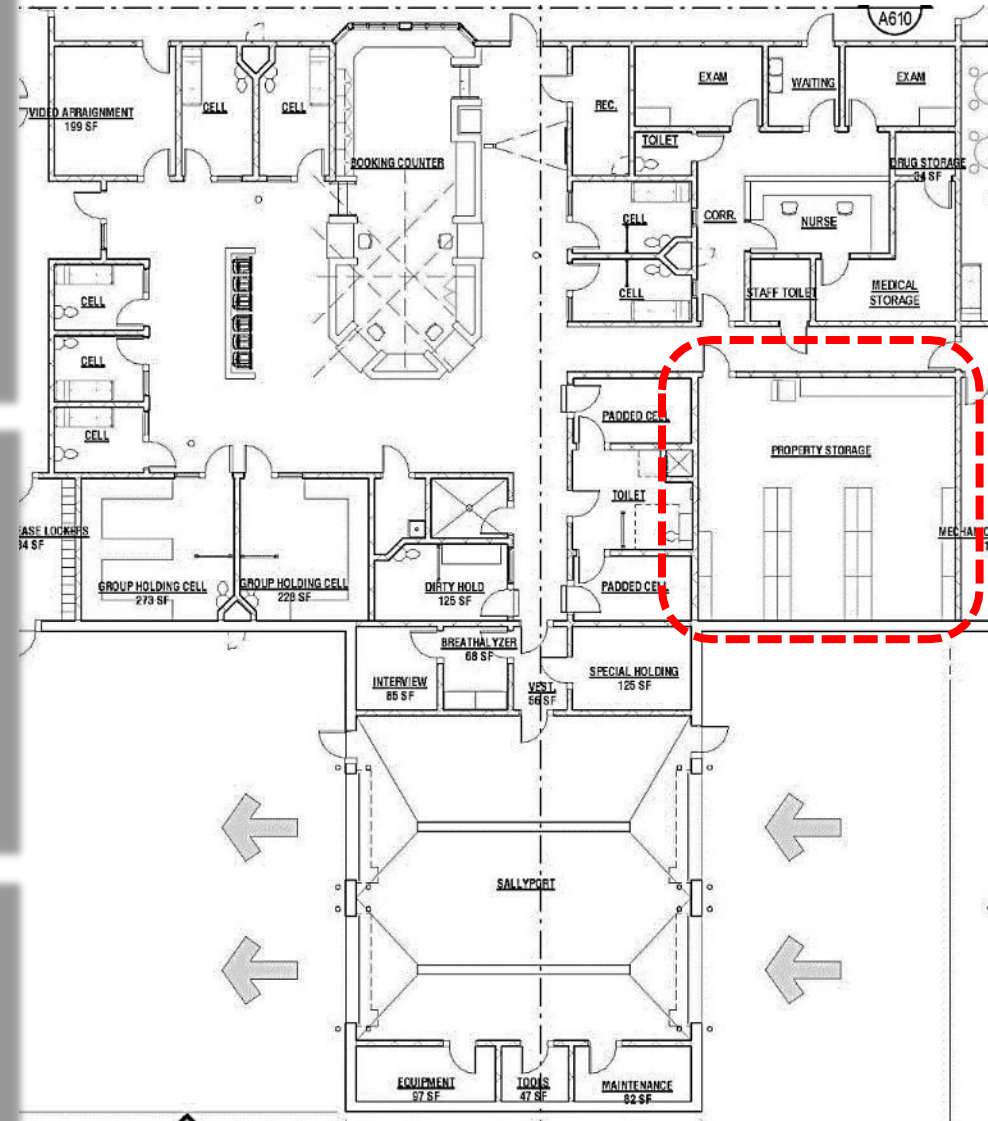
C. Processing Area

Round Table Discussion:



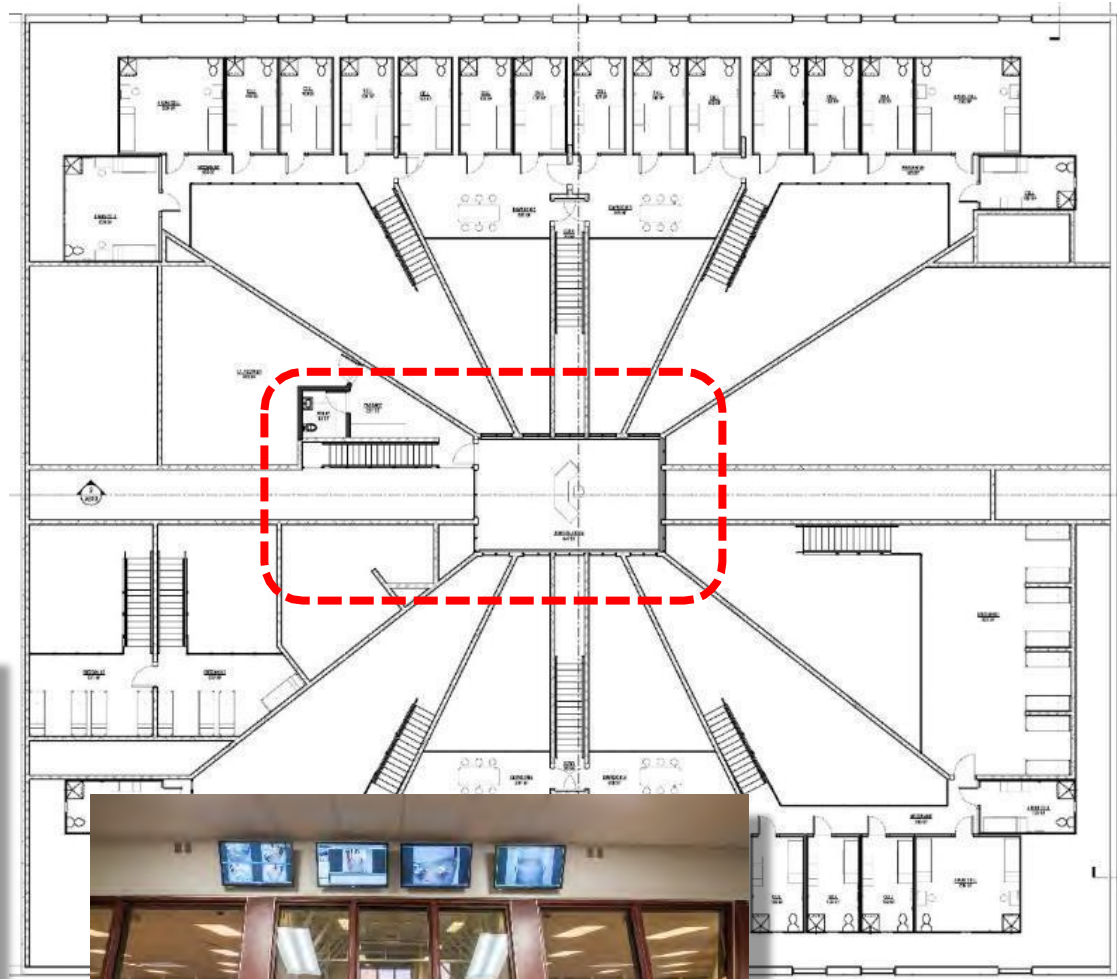
D. Detoxification, E. Holding Cells

Round Table Discussion:



F. Processing Storage

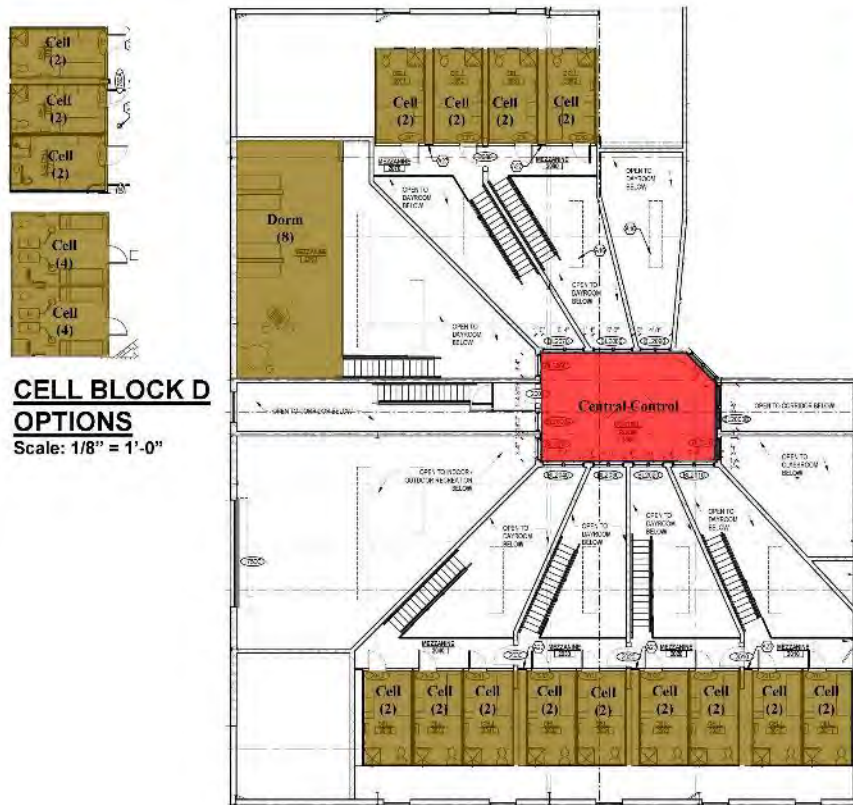
Round Table Discussion:



G. Control Centers



Round Table Discussion:

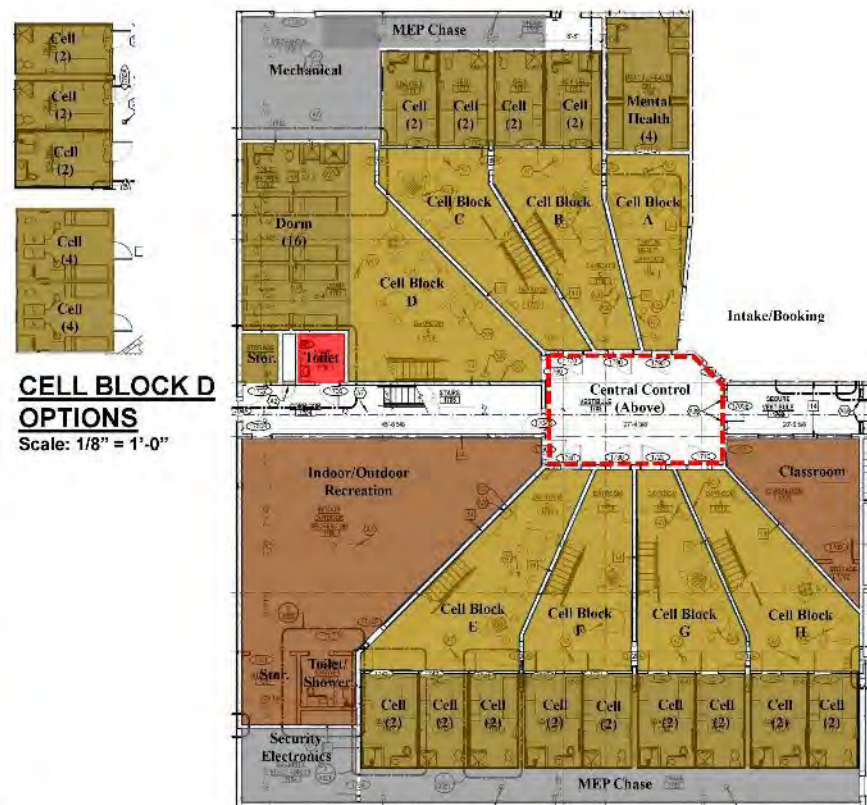


**CELL BLOCK D
OPTIONS**

Scale: 1/8" = 1'-0"

MEZZANINE PLAN

Scale: 1/8" = 1'-0"



**CELL BLOCK D
OPTIONS**

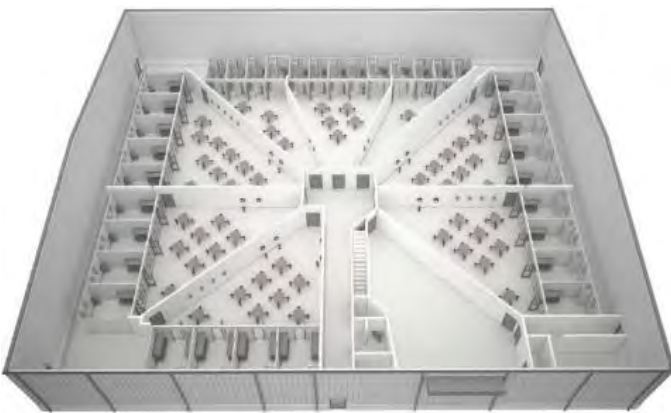
Scale: 1/8" = 1'-0"

FIRST FLOOR PLAN

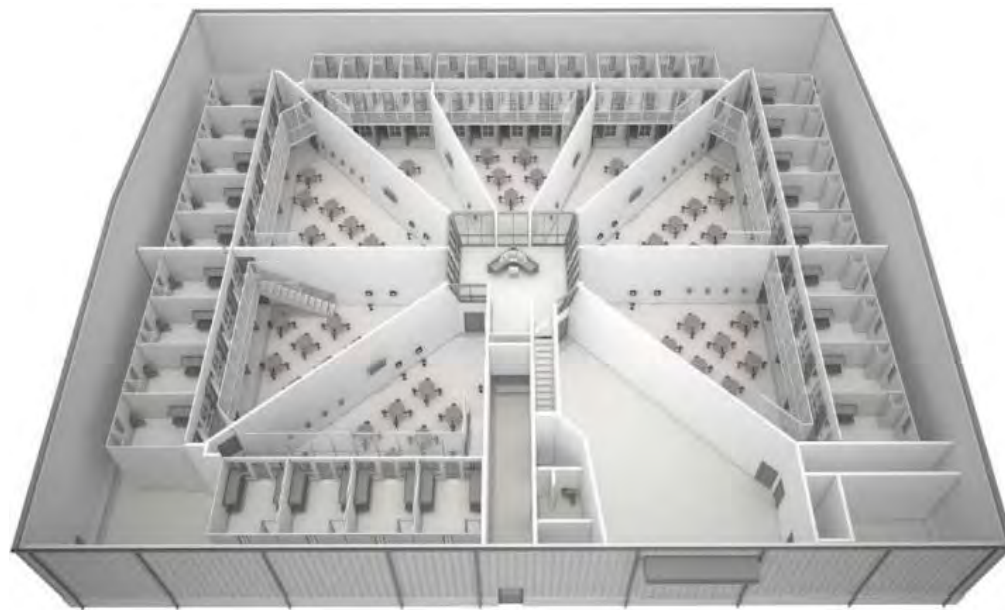
Scale: 1/8" = 1'-0"

Cell Block	Beds		
	Option 1	Option 2	Option 3
A	4	4	4
B	8	8	8
C	8	8	8
D	24	16	12
E	12	12	12
F	8	8	8
G	8	8	8
H	8	8	8
Total	80	72	68
D	Dorm	4 Man	2 man

Round Table Discussion:



Mezzanine Diagram



First Floor Diagram



I. Housing: Pod

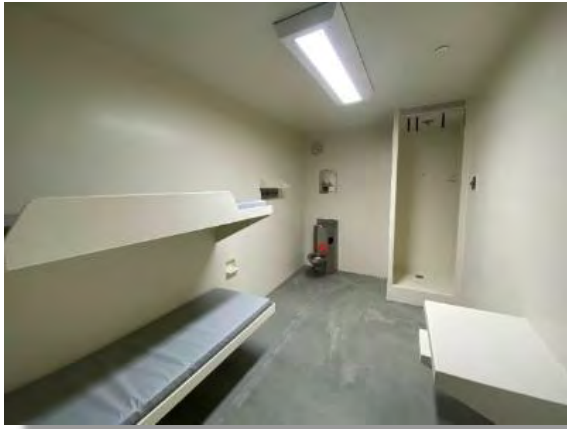


Round Table Discussion:



I. Housing: Modular Construction

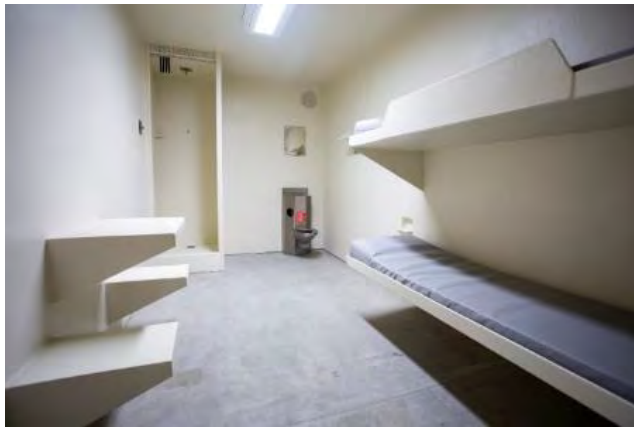
Round Table Discussion:



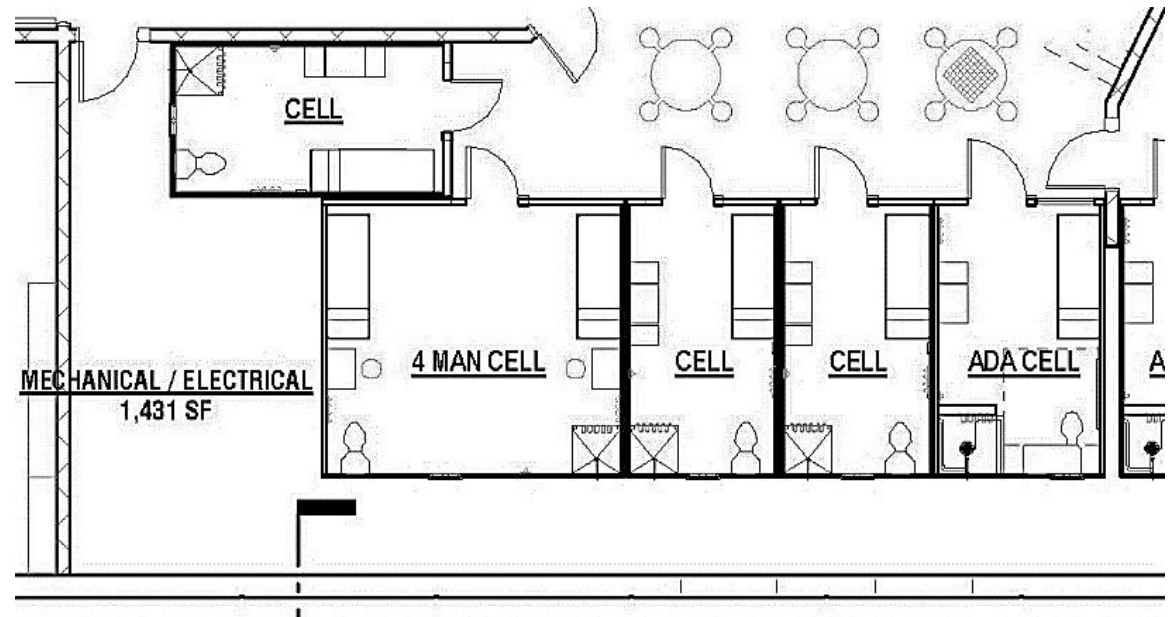
Typical 2 Man ADA Cell



Typical 4 Man Cell

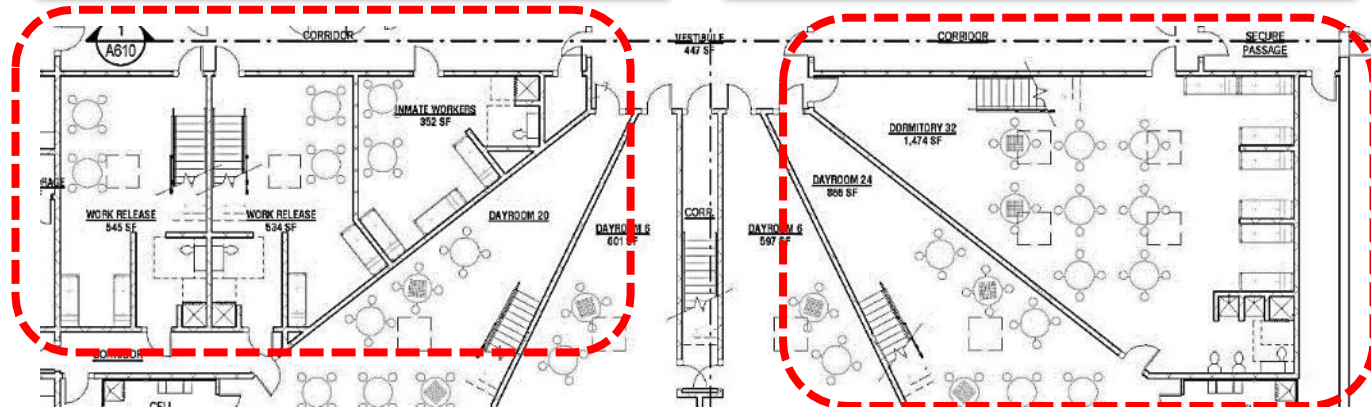
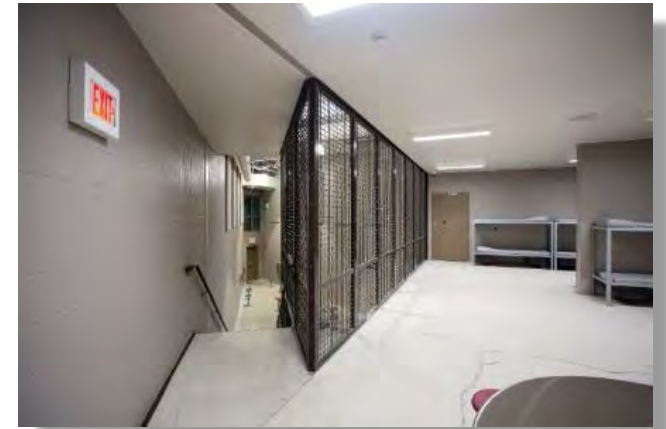


Typical 2 Man Cell



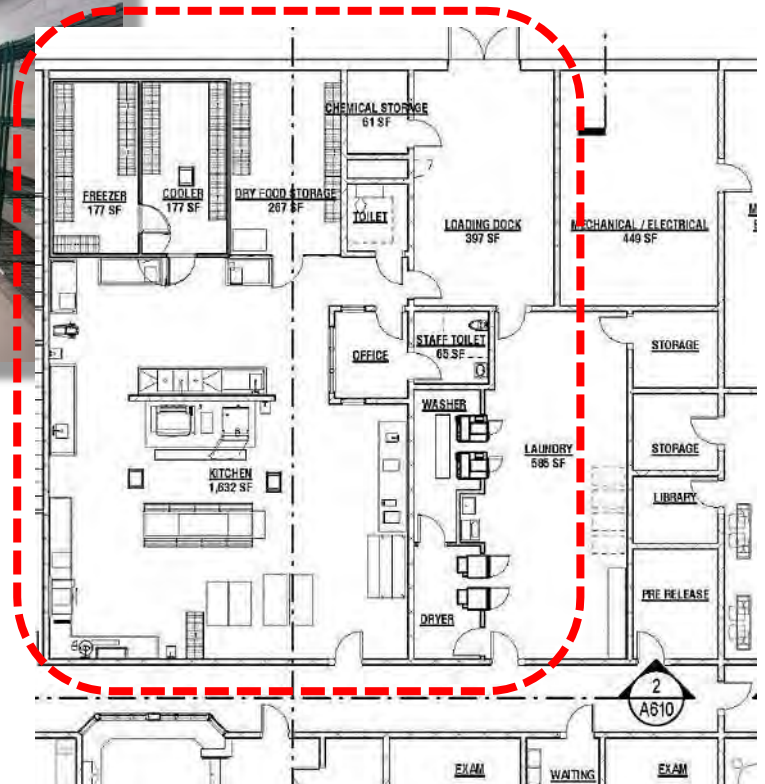
I. Housing: Typical Cells

Round Table Discussion:



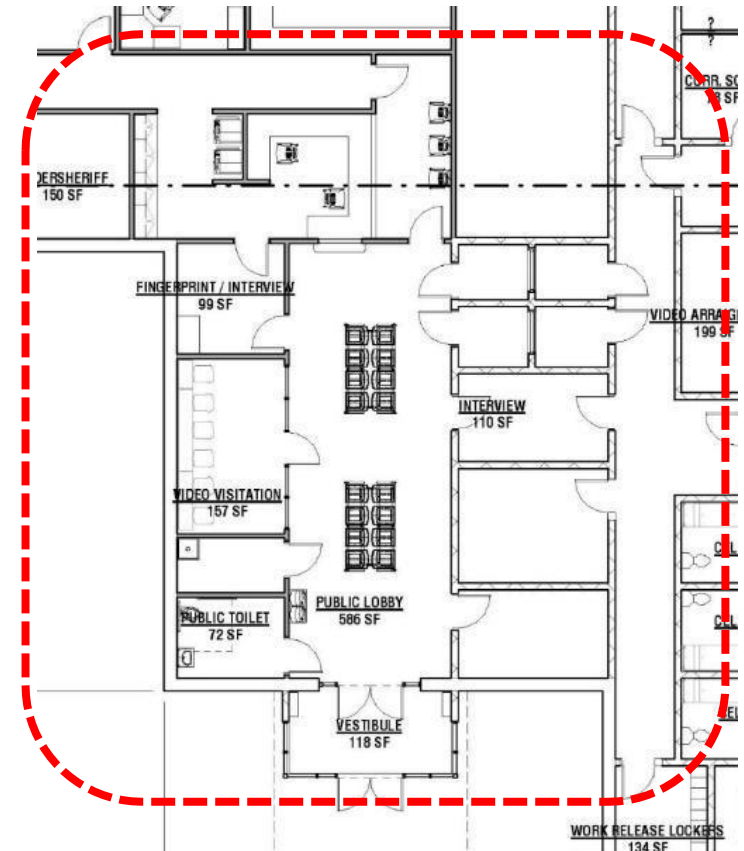
I. Housing: Typical Dorm

Round Table Discussion:



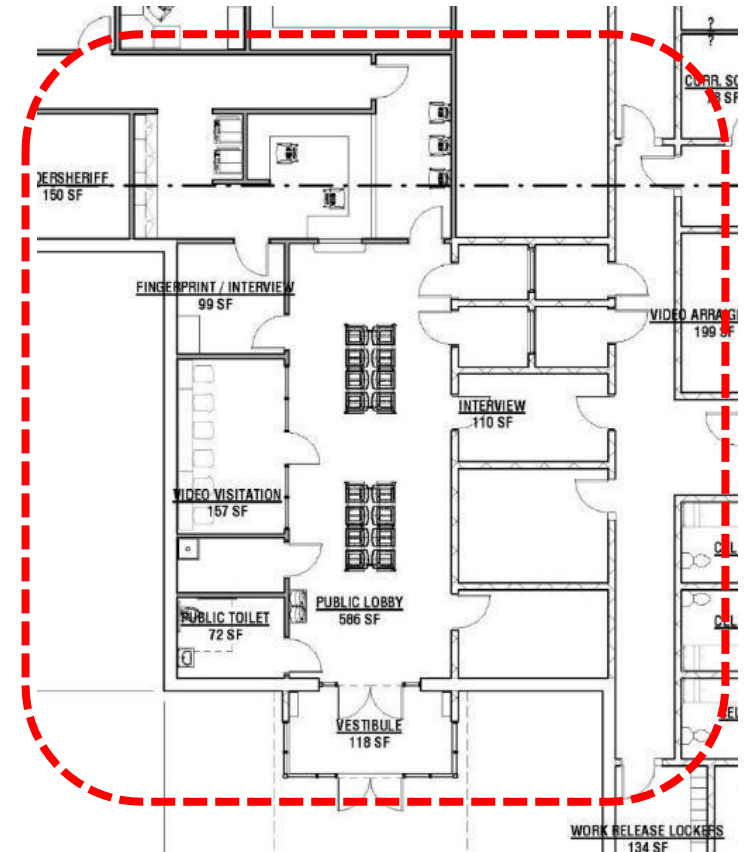
J. Food Preparation and Service Area

Round Table Discussion:



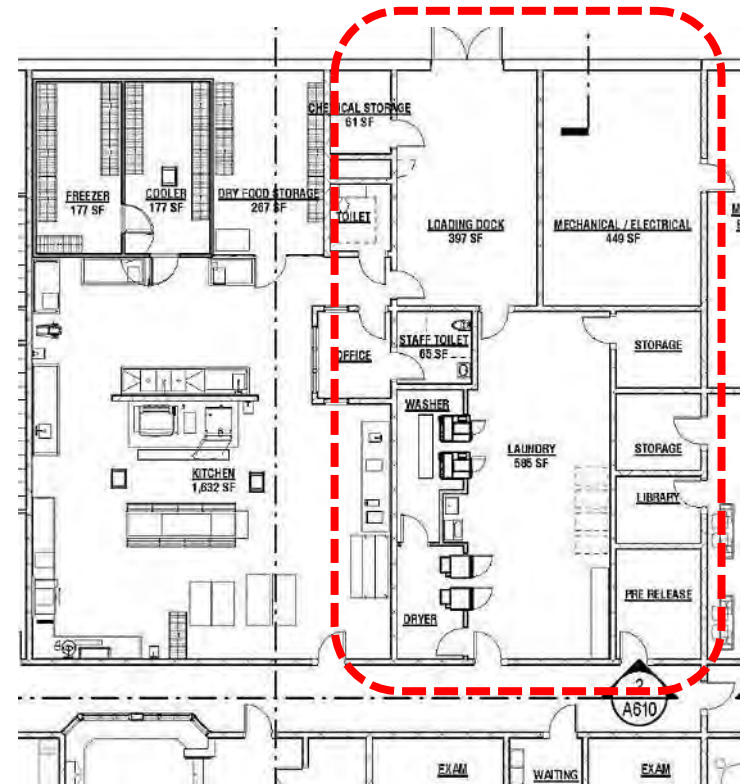
K. Public Lobby or Waiting Area

Round Table Discussion:

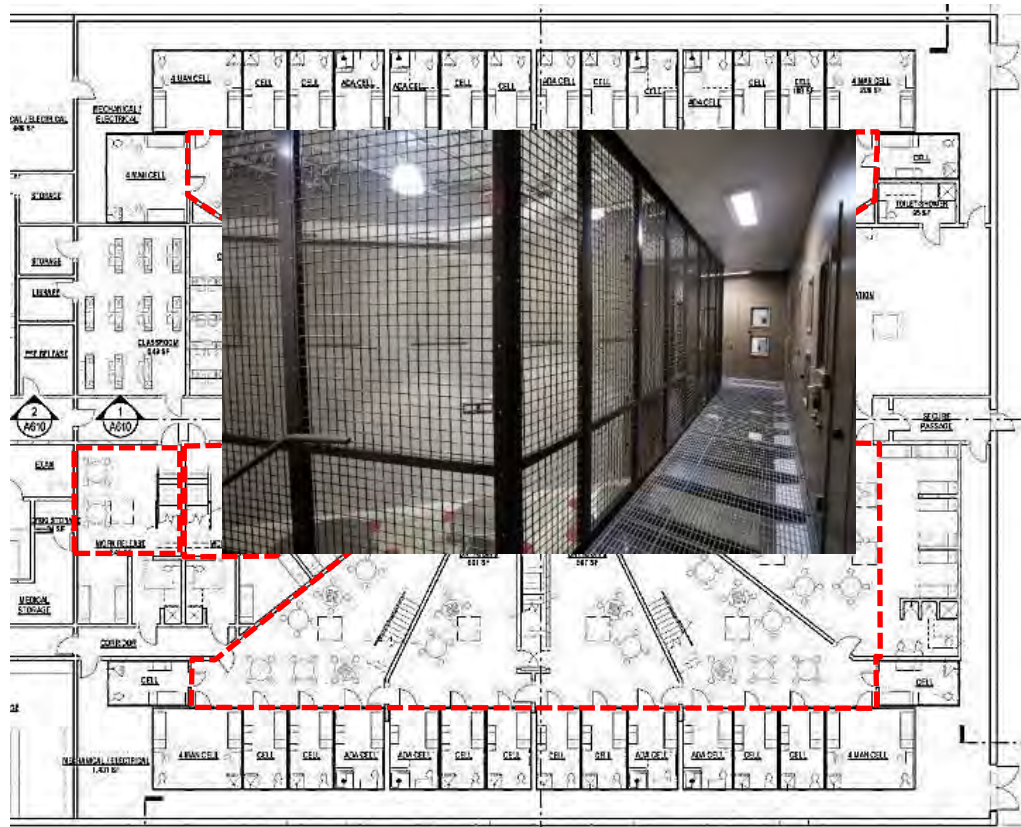


L. Visitation Accommodations

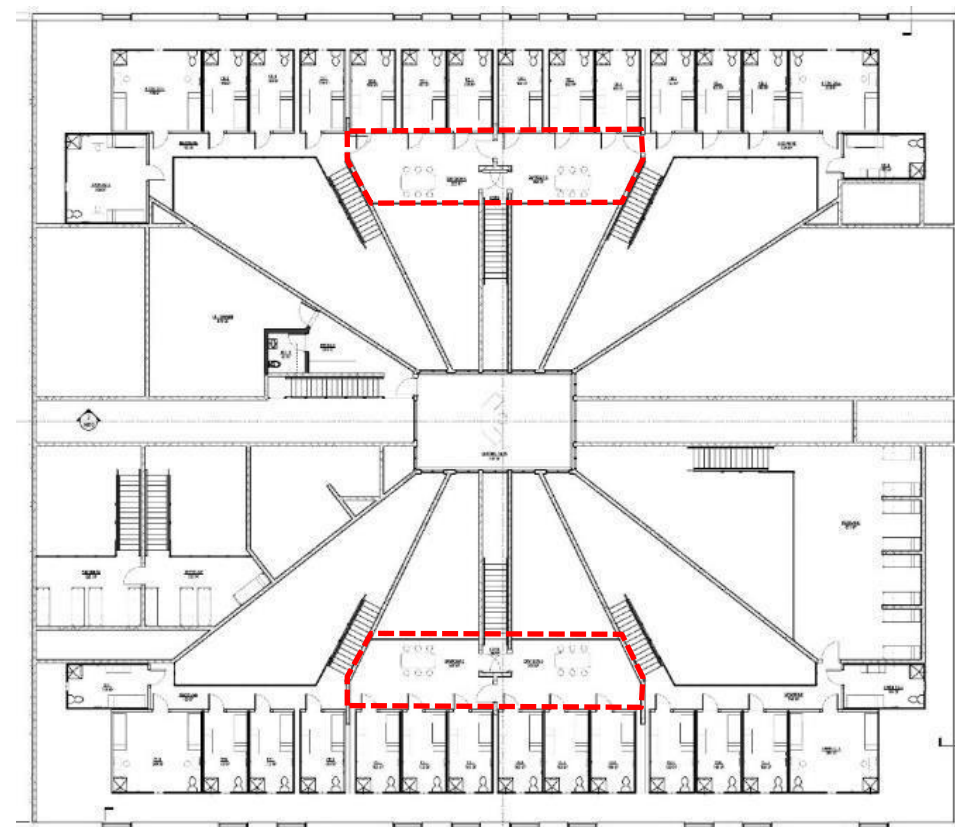
Round Table Discussion:



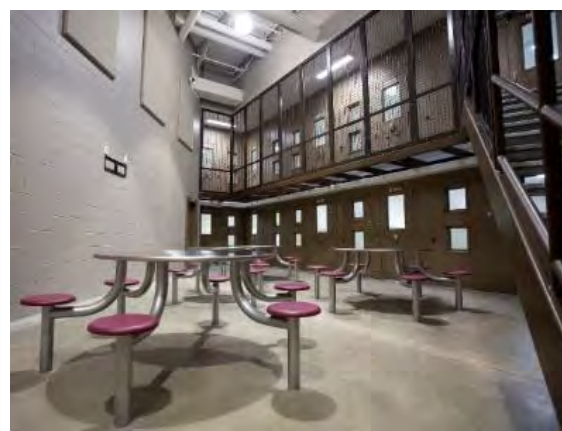
Round Table Discussion:



First Floor Plan

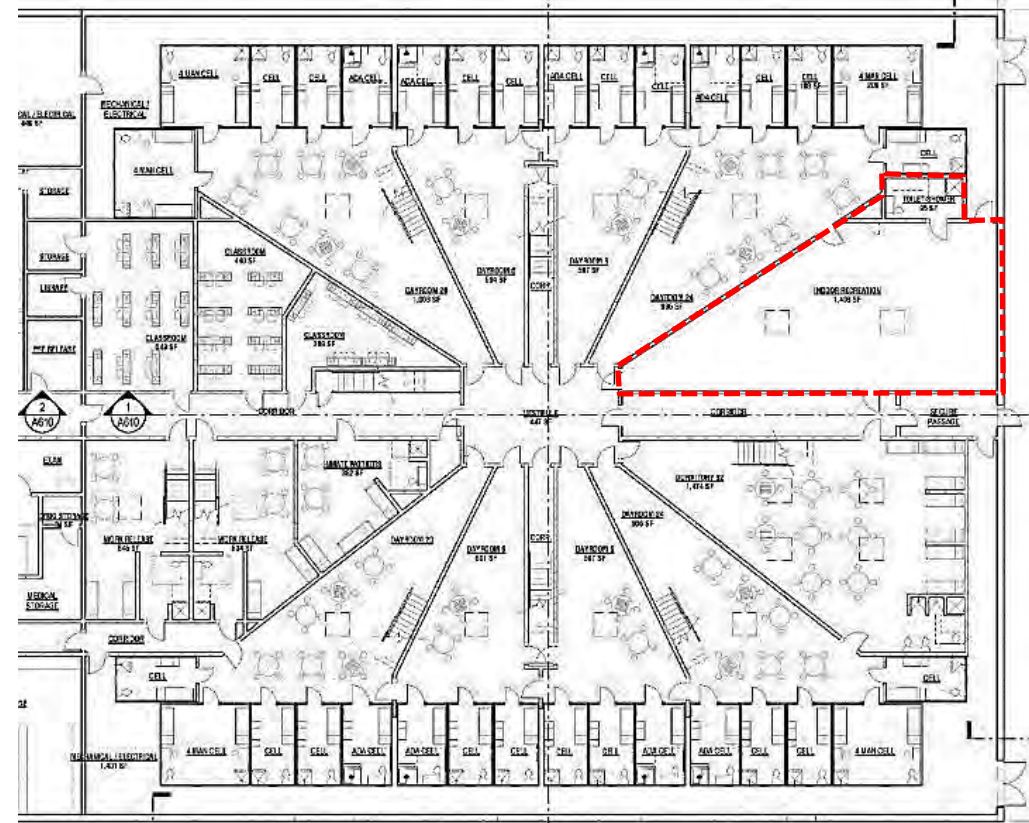
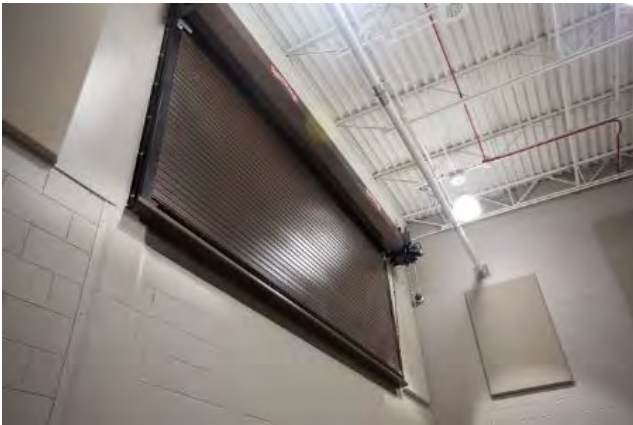


Mezzanine Plan



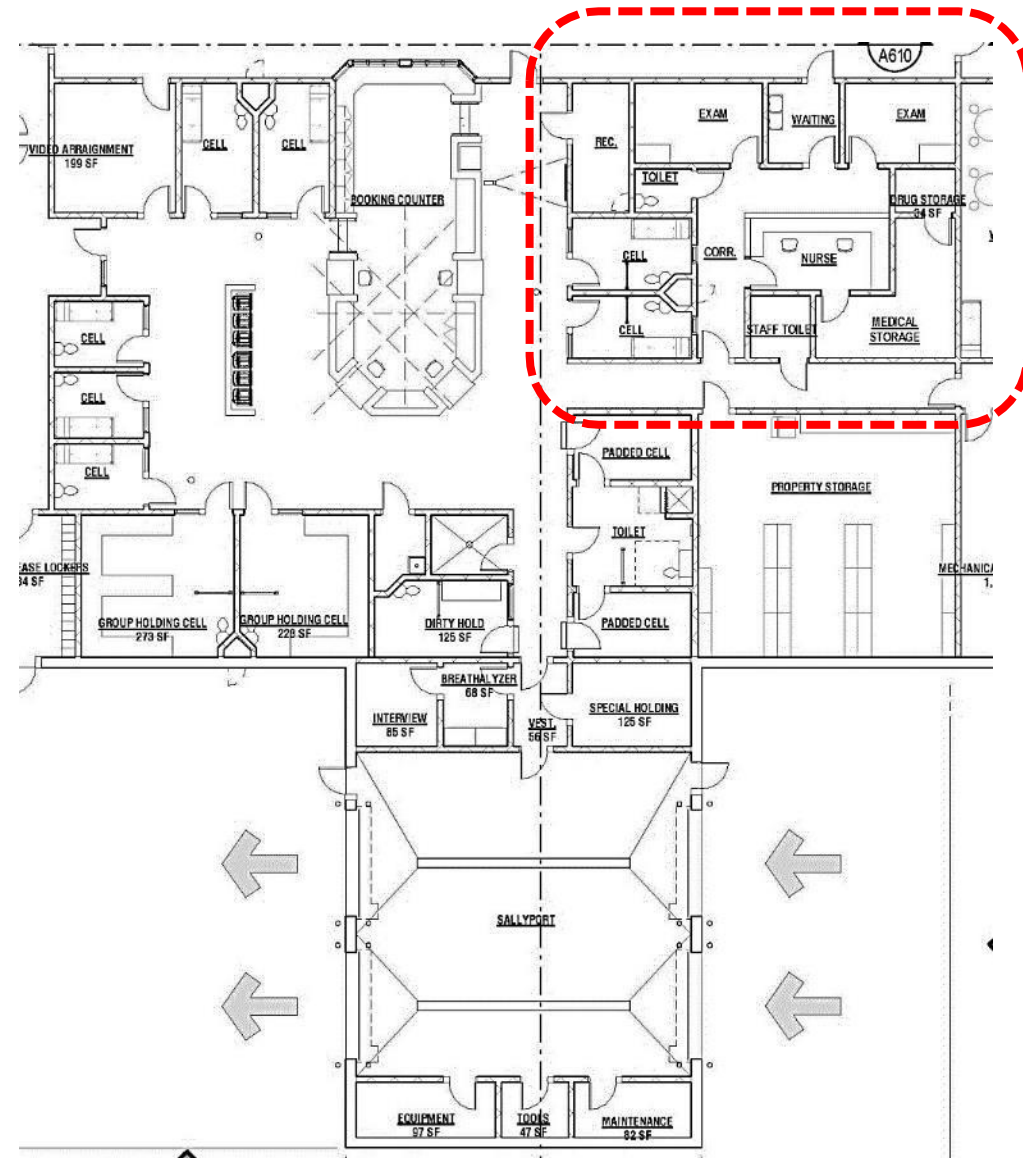
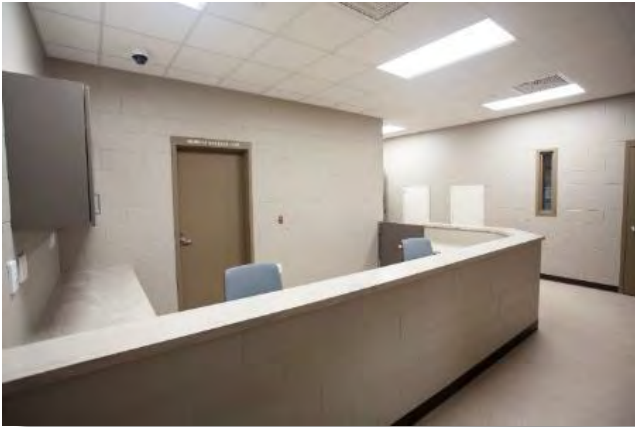
N. Dayrooms

Round Table Discussion:



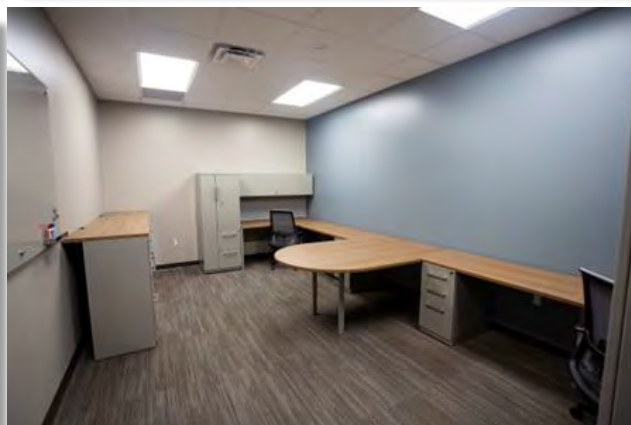
O. Multipurpose Room/ P. Outdoor Exercise Area

Round Table Discussion:



Q. Medical Examination and Treatment

Round Table Discussion:



R. Administrative and Clerical Space

Round Table Discussion:

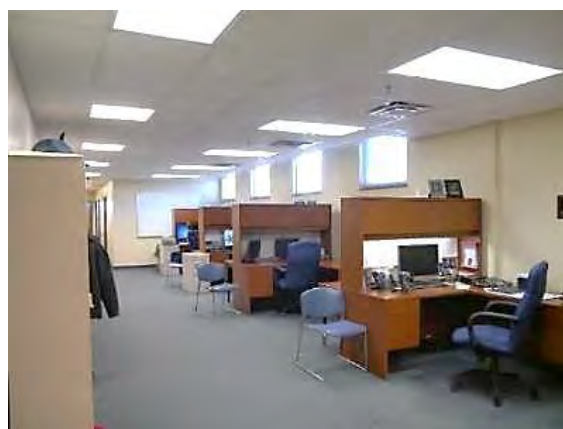
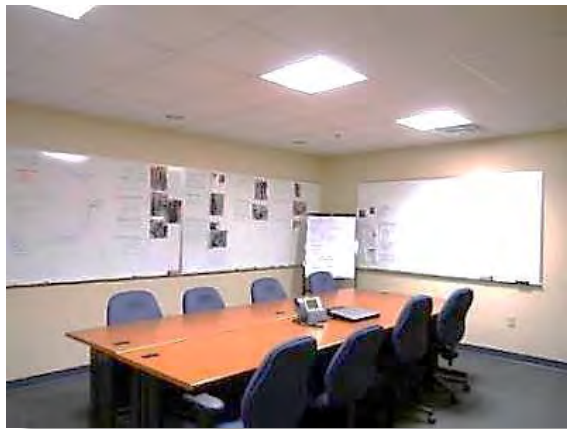


Round Table Discussion:



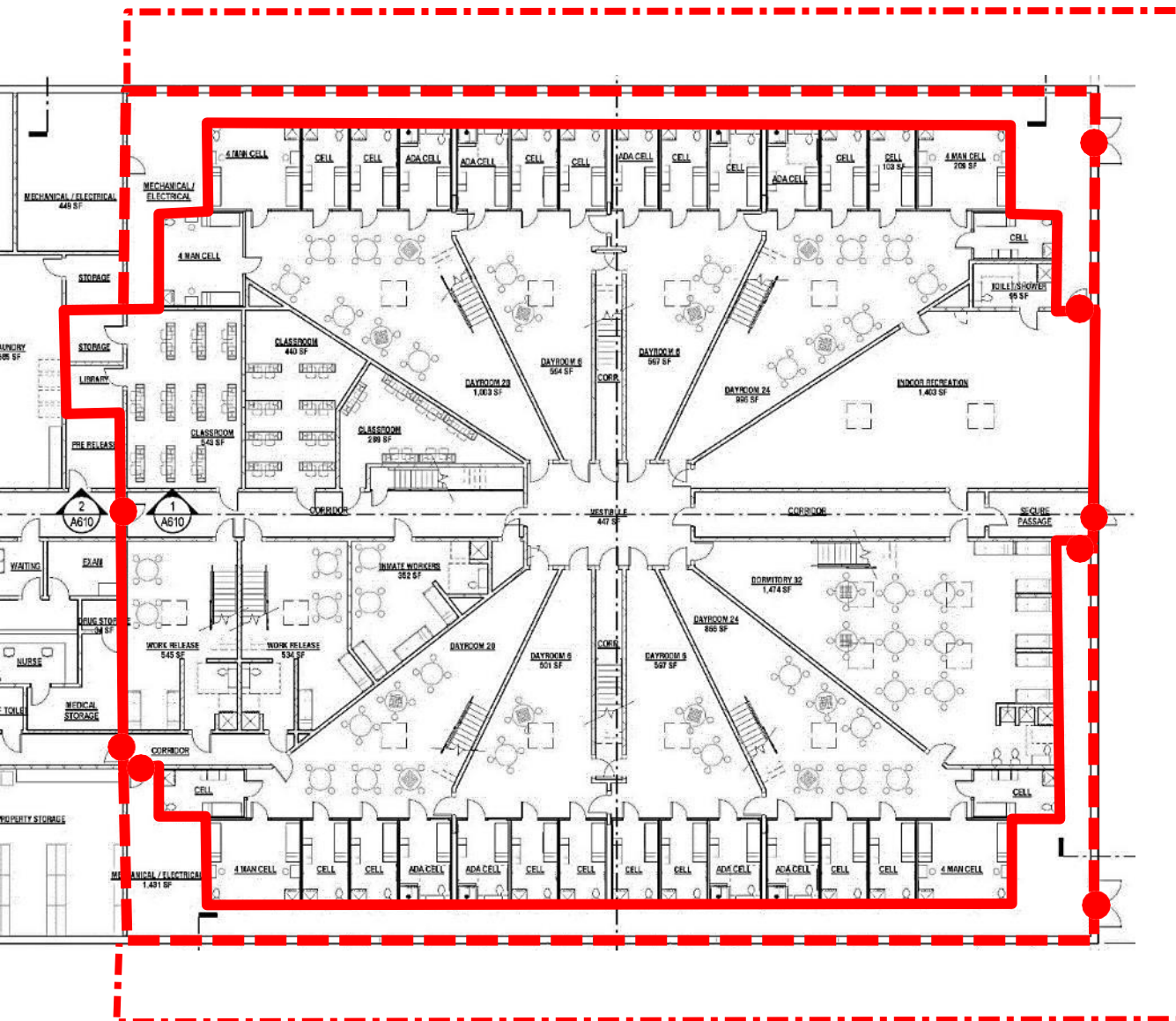
R. Administrative and Clerical Space

Round Table Discussion:



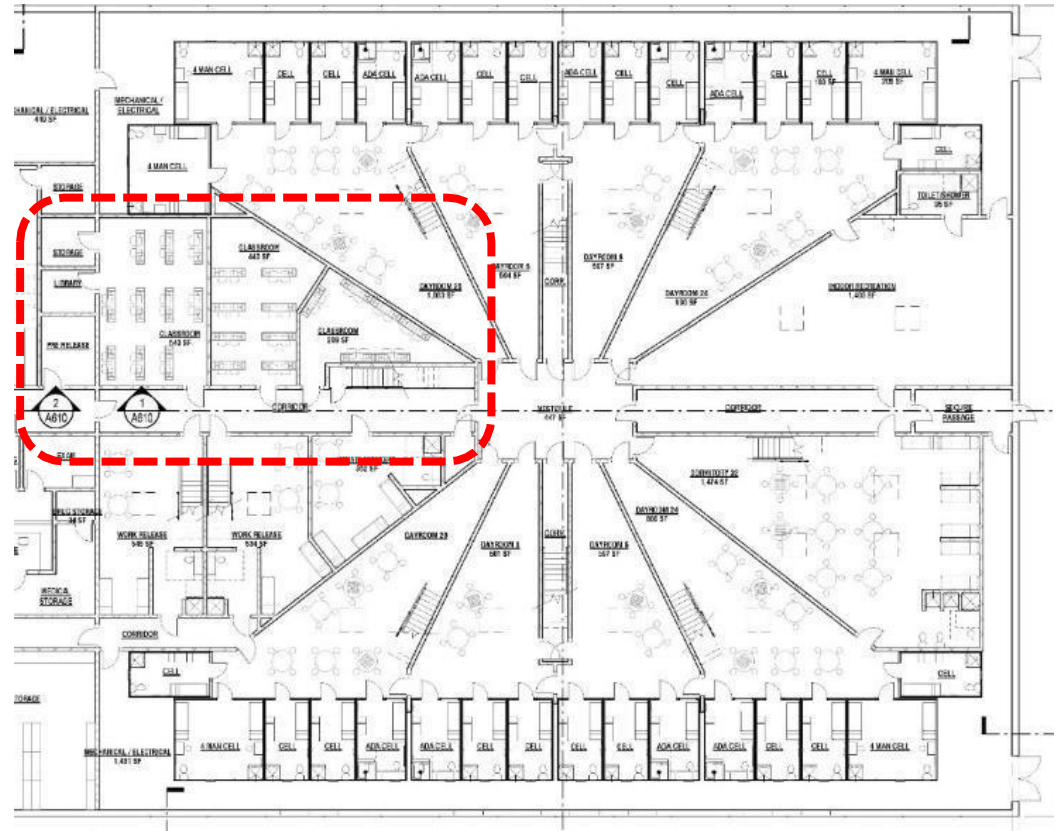
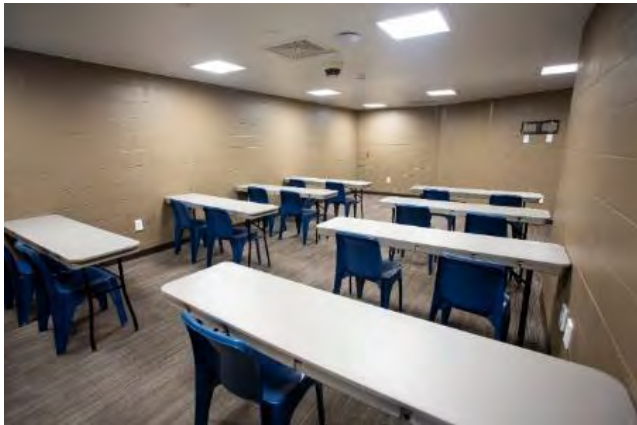
R. Administrative and Clerical Space

Round Table Discussion:



S. Secure Perimeter Walls

Round Table Discussion:

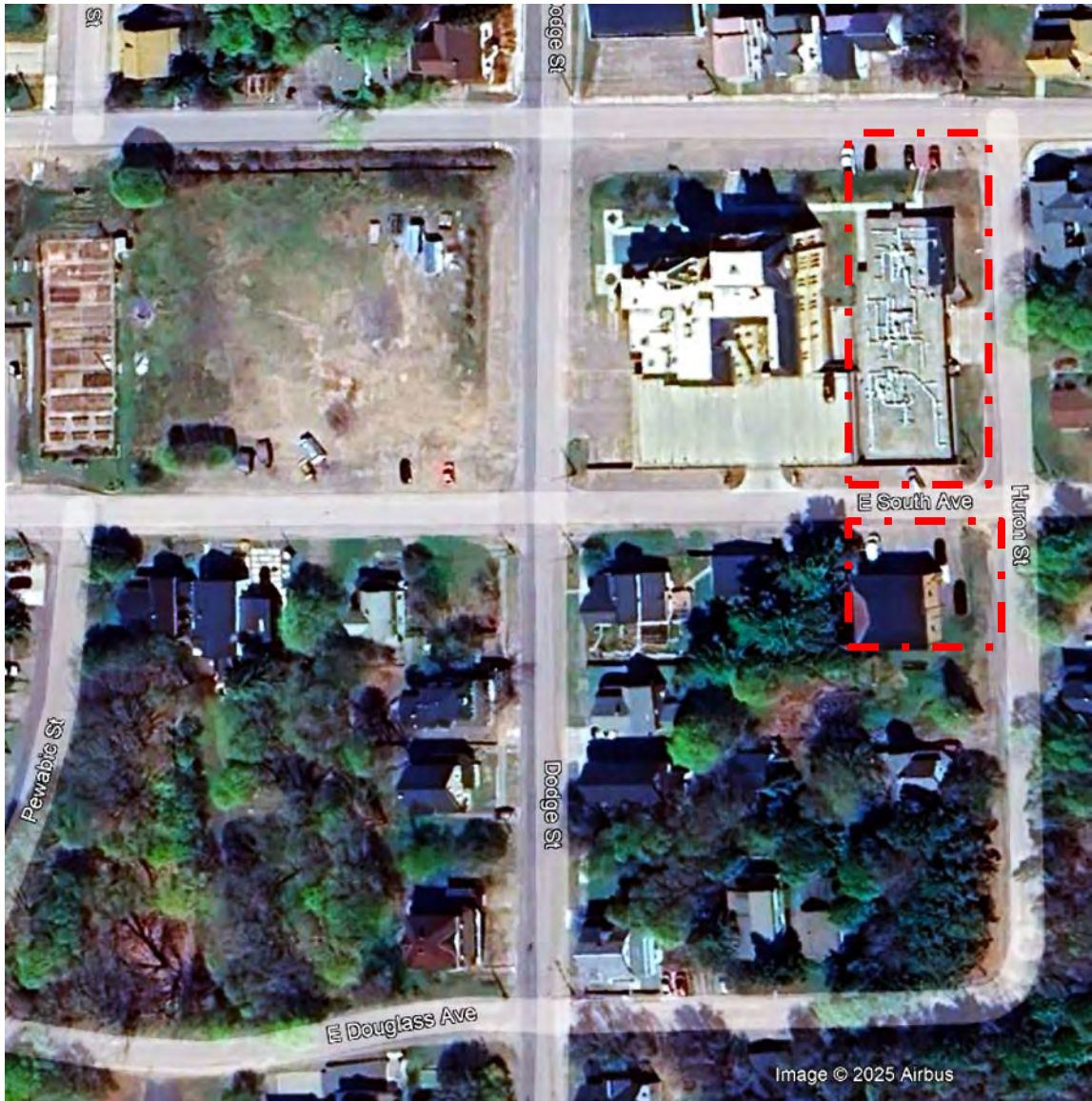


Charrette

- **Charrette Philosophy:**
 - There are no Dumb Ideas.
 - Everyone has a say.
 - Leave no stone unturned, explore all options.
 - Deductive process to get to the best solution.
- **Charrette Goals and Objectives:**
 - Jump Start the Decision Making and Design Process.
 - Build Longstanding Partnership.
 - Explore Site and Building Options.
 - Build Consensus for the Best Solution.
 - Select Preferred Option - Establish the Design Direction.
- **Major Efforts:**
 - Confirmation of Steps 1, 2 and 3.
 - Round Table Discussion.
 - Review of Sheriff's Office and Jail Design Examples.
 - Establish the Design Direction.



Charrette Sites - Existing



Existing Site	
Component	Square Feet
Main Facility	10,773
Remote Bldg.	5,675
Total	16,448
Site	.64 Acres/27,738 SF +/-
Parking	16 Spaces +/-



EXISTING SHERIFF'S OFFICE/CORRECTIONS SITE

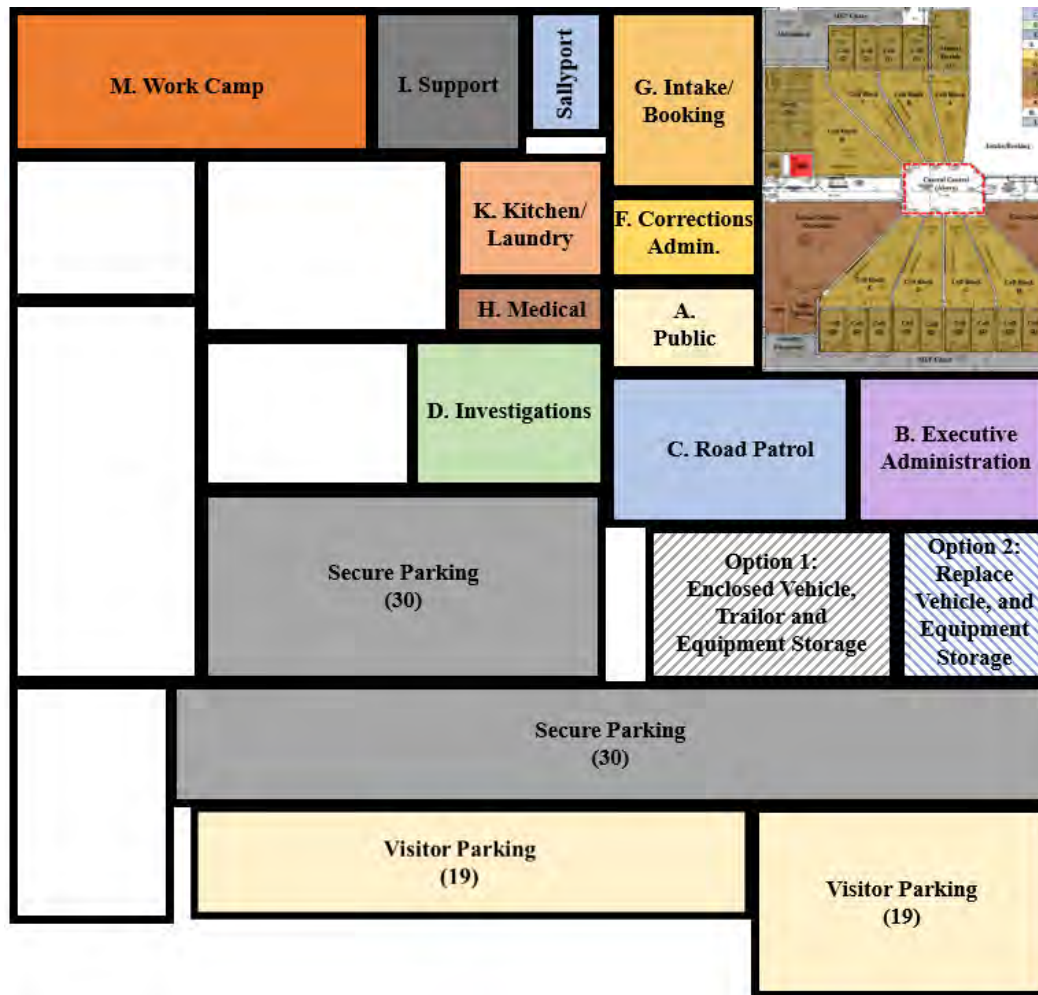
Charrette Sites - Church



CHURCH SITE

Proposed Church Site	
Component	Square Feet
Total SF	14,728 DGSF +/-
Site	6 Acres/261,360 SF +/-
Parking	294 Spaces

Charrette Blocks



- **Charrette Blocks**

- Based upon 2034 Architectural space Program (60 Beds)
 - Additional Beds may be added during Post-Charrette or Conceptual design if Determined Appropriate.
- Don't Worry about the shape of the blocks.
 - Shapes will be reconfigured as necessary based upon the design intent.
- Options:
 - Option 1: New Enclosed Vehicle and Equipment Storage
 - Option 2: Replace Remote Vehicle and Equipment Storage
 - Option 3: Work Camp

Pre-Charrette Option 1: Existing Site, New Construction



A.	Public
B.	Executive Administration
C.	Road Patrol
D.	Investigations
E.	Marine/ORV/Snow Mobile
F.	Corrections Administration
G.	Intake/Booking
H.	Medical
I.	Confinement/Housing
J.	Program
K.	Kitchen/Laundry
L.	Support Space

Pre-Charrette Option 1: Existing Site, New Construction

Component	SF
Minor Demolition	0
Major Demolition	10,773
Subtotal	10,773
Minor Renovation	0
Major Renovation	0
Addition	0
New Construction	36,779
Subtotal	36,779
Total	47,552
Unassigned Space	0

Based on 60 Beds, 2034 Space Program
Does Not Include Existing Remote Bldg.
Vehicle/Equipment Storage

Opinion of Total Probable Cost Range	
Low	\$32,728,189
Mean	\$35,381,826
High	\$38,035,463

Option 1: Enclosed Vehicle, Trailer and Equipment Storage	
Component	SF
New Construction: 4 Bays at 20' Wide X 48' Deep	3,840
Opinion of Total Probable Cost Range	
Low	\$1,661,927
Mean	\$1,796,677
High	\$1,931,428

Option 2: Replacement Vehicle, and Equipment Storage	
Component	SF
Current Remote Vehicle, and Equipment Storage	2,368
Opinion of Total Probable Cost Range	
Low	\$1,122,986
Mean	\$1,214,039
High	\$1,305,013

Option 3: M. Work Camp	
Component	SF
New Construction of Work Camp Dorms, Support Spaces	5,658
Opinion of Total Probable Cost Range	
Low	\$2,376,461
Mean	\$2,569,147
High	\$2,761,833

Pre-Charrette Option 2: Church Site, Addition & Renovation



A.	Public
B.	Executive Administration
C.	Road Patrol
D.	Investigations
E.	Marine/ORV/Snow Mobile
F.	Corrections Administration
G.	Intake/Booking
H.	Medical
I.	Confinement/Housing
J.	Program
K.	Kitchen/Laundry
L.	Support Space

Pre-Charrette Option 1: Existing Site, New Construction

Component	SF
Minor Demolition	0
Major Demolition	10,773
Subtotal	10,773
Minor Renovation	0
Major Renovation	0
Addition	0
New Construction	36,779
Subtotal	36,779
Total	47,552
Unassigned Space	0

Based on 60 Beds, 2034 Space Program

Does Not Include Existing Remote Bldg. Vehicle/Equipment Storage

Opinion of Total Probable Cost Range	
Low	\$32,728,189
Mean	\$35,381,826
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Component	SF
New Construction of Work Camp Dorms, Support Spaces	5,658
Opinion of Total Probable Cost Range	
Low	\$2,376,461
Mean	\$2,569,147
High	\$2,761,833

Evergreen Dr.

Madeline St.

Visitor Parking (19)

A. Public

B. Executive Administration

C. Road Patrol

D. Investigations

E. Support

F. Generator

G. Intake/Booking

H. Medical

I. Kitchen/Laundry

J. Support

K. Support

L. Support

M. Work Camp

Future Cell Pod

Future Cell Pod

Option 1: Support Vehicle and Equipment Storage

Option 2: Support Vehicle and Equipment Storage

Unimproved 7,319 sq. ft.

Secure Parking (19)

Loading Dock

Corrections Admin.

Sallyport

Pre-Charrette Option 1: Existing Site, New Construction	
Component	SF
Minor Demolition	0
Major Demolition	10,773
Subtotal	10,773
Minor Renovation	0
Major Renovation	0
Addition	0
New Construction	36,779
Subtotal	36,779
Total	47,552
Unassigned Space	0

Opinion of Total Probable Cost Range	
Low	\$32,728,189
Mean	\$35,381,826
High	\$38,035,463

Option 2: Replacement Vehicle, and Equipment Storage	
Component	SF
Current Remote Vehicle, and Equipment Storage	2,368
<i>Does Not Include Fitness in Space Program</i>	
Opinion of Total Probable Cost Range	
Low	\$1,122,986
Mean	\$1,214,039
High	\$1,305,091

139

Evergreen Dr.

Madeline St.

Future Cell Pod

Secure Parking (30)

Visitor Parking (19)

M. Work Camp

N. 911 DGSE

O. 911 DGSE

P. 911 DGSE

Q. 911 DGSE

R. 911 DGSE

S. 911 DGSE

T. 911 DGSE

U. 911 DGSE

V. 911 DGSE

W. 911 DGSE

X. 911 DGSE

Y. 911 DGSE

Z. 911 DGSE

A. Public

B. Executive Administration

C. Road Patrol

D. Investigations

E. Support

F. Kitchen/Laundry

G. Intake/Booking

H. Medical

I. Support Enclosed Vehicle, Trailer and Equipment Storage

J. Support

K. Kitchen/Laundry

L. Support

M. Work Camp

N. 911 DGSE

O. 911 DGSE

P. 911 DGSE

Q. 911 DGSE

R. 911 DGSE

S. 911 DGSE

T. 911 DGSE

U. 911 DGSE

V. 911 DGSE

W. 911 DGSE

X. 911 DGSE

Y. 911 DGSE

Z. 911 DGSE

Option 3: M. Work Camp		
Component		SF
New Construction of Work Camp Dorms, Support Spaces		5,658
<i>Does Not Include Fitness in Space Program</i>		
Opinion of Total Probable Cost Range		
	Low	\$2,376,461
	Mean	\$2,569,147
	High	\$2,761,833

Opinion of Probable Cost Components

- **Hard Construction Costs**
 - *Demolition*
 - *Addition*
 - *Renovation*
 - *New Construction*
 - *Site*
 - *Contingencies*
 - *Inflationary Factors*
- **Soft Costs Construction Related**
 - *Survey*
 - *Subsurface Soils Investigations/Geotechnical Report*
 - *Land Acquisition (Currently Not Included)*
 - *Temporary Housing/Accommodations (Currently Not Included- Separate Budget Item)*
 - *Architectural/Engineering Fees*
 - *Construction Manager Fees*
 - *Financing, Consulting and Legal Fees*
 - *Bid Printing and Advertising*
 - *Contingencies*
 - *Inflationary Factors*
- **Soft Costs Occupancy Related**
 - *Furniture and Equipment*
 - *Technology*
 - *Audio/Visual*
 - *Telephone*
 - *Moving Expenses*
 - *Contingencies*
 - *Inflationary Factors*

Opinion of Probable Cost Format

Houghton County Justice Center Master Plan Study			
Opinion of Probable Cost Summary: Pre-Charrette Option 1: Existing Site, New Construction			
Project Description:			
1. Demolition, Haul Off and Disposal of the Existing Sheriff's Office and Jail: 10,773 BGsf			
2. New Construction (60 Beds, 2034 Architectural Space Program): 39,199			
Assumptions:			
1. Does Not Include Property Acquisition.			
2. No hazardous materials or poor soils mitigation anticipated.			
2. Assumes Construction Manager Delivery System.			
3. Assumes Construction Start Date of Spring 2026.			
4. Square Foot Costs Based upon Historical Data Escalated to Anticipated Construction Start Date; Spring 2026			
5. Assumes No New Stormwater Management System is Required on Site/Use of Municipal System			
6. Cost of Temporary Relocation of Inmates Not Included.			
7. Refer to Table Notes for additional assumptions.			
Anticipated Range of Probable Cost			
Range of Probable Cost (Low, Mean and High) to Account for Potential Variables in Design and Fluctuations in Bidding Climate, Material and Labor Costs at the Anticipated Time of Bidding/Negotiation and Construction.			
Plan for Mean Cost, Work Towards Low Cost, Be Prepared for High Cost.			
A. Hard Construction	Range of Probable Cost		
Costs Directly Related to Construction also known as "Bricks and Mortar" Including New Construction, Additions, Renovation/Remodel and Site, as well as Demolition Costs.	Range	Cost	Cost Per SF
	Low	\$27,409,997	\$745.26
	Mean	\$29,632,429	\$805.69
	High	\$31,854,861	\$866.12
Total Mean Cost % of Total Project Budget		83.75%	
B. Soft Cost Construction Related	Range of Probable Cost		
Costs Indirectly Related to Construction such as Site Survey, Soils Investigations, Design Fees and Financing, etc.	Range	Cost	Cost Per SF
	Low	\$4,598,680	\$125.04
	Mean	\$4,971,546	\$135.17
	High	\$5,344,412	\$145.31
Total Mean Cost % of Total Project Budget		14.05%	
C. Soft Costs Occupancy Related	Range of Probable Cost		
Costs Related to Occupancy including IT, Audio/Visual, Phones and Furniture, as well as Equipment, etc.	Range	Cost	Cost Per SF
	Low	\$719,512	\$19.56
	Mean	\$777,851	\$21.15
	High	\$836,190	\$22.74
Total Mean Cost % of Total Project Budget		2.20%	
Anticipated Total Project Budget	Range of Probable Cost		
Includes "Hard Construction", "Soft Costs Construction Related" and "Soft Costs Occupancy Related" as well as Contingencies Appropriate for the Level of Design Completed.	Range	Cost	Cost Per SF
	Low	\$32,728,189	\$889.86
	Mean	\$35,381,826	\$962.01
	High	\$38,035,463	\$1,034.16
Total Mean Cost % of Total Project Budget		100%	

Houghton County Justice Center Master Plan Study						
Opinion of Probable Cost Detail: Pre-Charrette Option 1: Existing Site, New Construction						
Item	Description	Quantity	Unit	Unit Cost	Total	Notes
A. Hard Construction						
0.1	Demolition	10,773	BGSF	\$3.20	\$34,474	(1).
0.2	Renovation	0	BGSF	\$216.80	\$0	(2).
0.3	New Construction	36,779	BGSF	\$588.51	\$21,644,809	(3).
0.4	Site Improvements	36,779	BGSF	\$25.00	\$919,475	(4).
0.5				Subtotal	\$22,598,758	
0.6	Construction Manager			8%	\$1,807,901	(5).
0.7				Subtotal	\$24,406,659	
0.8	General Conditions			2.5%	\$610,166	
0.9				Subtotal	\$25,016,825	
0.10	Contingency			15%	\$3,752,524	
0.11				Subtotal	\$28,769,349	
0.12	Inflationary Factor			3.0%	\$863,080	(6).
0.13	Total Hard Construction Costs				\$29,632,429	
B. Soft Cost Construction Related						
0.1	Site Acquisition	1	LSUM	\$225,000	\$225,000	(7).
0.2	Temporary Housing	30	EA	\$45,012	\$1,350,354	(8).
0.3	Site Survey	1	LSUM	\$25,000	\$25,000	(9).
0.4	Subsurface Soil Investigations/ Geotech.	8	EA	\$2,500	\$20,000	
0.5	Phase I Environmental	0	EA	\$1,700	\$0	(10).
0.6	Architectural/Engineering Design Fees		7.00%	\$29,632,429	\$2,074,270	
0.7	Furniture and Equipment Design and Bidding		0.10%	\$29,632,429	\$29,632	
0.8	Security System Design		0.20%	\$29,632,429	\$59,265	
0.9	A/E Reimbursable Expenses		0.50%	\$29,632,429	\$148,162	
0.10	CM Design Phase Fees		2.00%	\$29,632,429	\$592,649	
0.11	Financing and Legal Fees		1.00%	\$29,632,429	\$296,324	(11).
0.12	Builders Risk Insurance		0.10%	\$29,632,429	\$29,632	(12).
0.13				Subtotal	\$4,850,289	
0.14	Contingency			2.5%	\$121,257	
0.15	Total Soft Costs Construction Related				\$4,971,546	
C. Soft Costs Occupancy Related						
0.1	FF&E	27,531	3%	\$29,632,429	\$740,811	(13).
0.2	IT/Information Technology	27,531				(14).
0.3	Telephone	27,531		Above		
0.4	Cleaning/Maintenance Supplies	27,531		Above		
0.5	Moving/Relocation Expenses	27,531		Above		
0.6				Subtotal	\$740,811	
0.7	Contingency			5.0%	\$37,040.54	
0.8	Total Soft Costs Occupancy Related				\$777,851	
Table Notes:						
(1). Assumes complete demolition of the existing Sheriff's Office and Jail and related site.						
(2). No renovation anticipated.						

Opinion of Probable Cost Summary

Option (60 Beds)	Opinion of Probable <u>Base</u> Cost Range			
	Low	Mean	High	Available Space
Pre-Charrette Options				
Option 1: Existing Site, New Construction	\$32,728,189	\$35,381,826	\$38,035,463	14,728+/-
Option 2: Church Site, Addition & Renovation	\$24,316,175	\$26,287,757	\$26,287,757	2,115
Option 3: Church Site, Addition & Renovation	\$27,284,989	\$29,497,286	\$31,709,582	7,379
Option 4: Church Site, Addition & Renovation	\$31,052,005	\$33,569,735	\$36,087,465	11,911

Base Cost Does Not Include the Following Options:

Pre-Charrette Inclusion Options	Opinion of Probable Cost Range		
	Low	Mean	High
Option 1: Enclosed Vehicle, Trailor and Equipment Storage	\$1,661,927	\$1,796,677	\$1,931,428
Option 2: Replacement Vehicle, and Equipment Storage	\$1,122,986	\$1,214,039	\$1,305,091
Option 3: M. Work Camp	\$2,376,461	\$2,569,147	\$2,761,833
Option 4: Add 10 Beds (70 Total)	\$1,133,202	\$1,225,083	\$1,316,964
Option 5: Add 20 Beds (80 Total)	\$2,266,404	\$ 2,450,166	\$2,633,928

Budget Considerations – Corrections Staff



Option 1: Existing Site, New Construction



Option 2: Church Site Addition & Renovation



Option 4: Church Site Addition & Renovation



Option 3: Church Site Addition & Renovation

Day Shift			
Desig.	Staff/Position	Shift 1	Shift 2
	Administration	1	1
	Central Control	1	1
	Intake/Booking	1	1
	Confinement Officers	2	2
●	Transport Officers	0	0
◐	Part Time Transport Officers	3	3
	Part – Time Bailiffs	3	3
	Kitchen/Laundry	3	3
	Medical	1	1
	Program	0	0
Subtotal Shift		15	15
Total Shifts (2)		30	

Night Shift			
Desig.	Staff/Position	Shift 1	Shift 2
	Administration	0	0
	Central Control	1	1
	Intake/Booking	1	1
	Confinement Officers	1	1
●	Transport Officers	0	0
◐	Part Time Transport Officers	0	0
	Part – Time Bailiffs	0	0
	Kitchen/Laundry	0	0
	Medical	0	0
	Program	0	0
Subtotal Shift		3	3
Total Shifts (2)		6	

Budget Considerations

New Staff		2024 Annual Compensation			Additional Annual Staff Cost			
		Salary	Benefits	Total	Staff	Total		
Part Time Transport Officer		\$25,584.00	\$1,956.97	\$27,540.97	3	\$82,622.91		
	Applies to Pre-Charrette Options 2, 3 and 4							
Temporary Housing								
Component				Low	Average	High		
Average Daily Population 2014 - 2019				47.2	51.0	54.8		
Per Day Average Cost of Temporary Inmate Housing				\$57.04	\$61.66	\$66.28		
Annual Average Cost of Temporary Inmate Housing				\$20,533	\$22,198	\$23,862		
Total Annual Average Cost of Temporary Inmate Housing				\$968,634	\$1,132,078	\$1,308,257		
Total Cost of Temporary Inmate Housing (2 Years)				\$1,937,268	\$2,264,155	\$2,616,514		
Total Cost of Temporary Inmate Housing (3 Years)				\$2,905,902	\$3,396,233	\$3,924,772		
Total Cost of Temporary Inmate Housing (4 Years)				\$3,874,536	\$4,528,310	\$5,233,029		
	Applies to Pre-Charrette Option 1 Only							
Utility Cost			2024 Total Annual Cost	Total Square Feet	Cost per SF	Total Utility Cost Includes: Water, Sewer, Gas, Electrical and Telephone		
Total			\$52,410	16,448	\$3.19			
Pre-Charrette Options		Square Feet	Range of Probable Cost			Range of Probable Additional Utility Cost		
			Low	Mean	High	Low	Mean	High
Option 1: Existing Site, New Construction		47,552	\$140,156	\$151,520	\$162,884	\$102,188	\$110,474	\$118,760
Option 2: Church Site, Addition & Renovation		51,507	\$151,813	\$164,122	\$176,431	\$103,334	\$111,712	\$120,091
Option 3: Church Site, Addition & Renovation		51,251	\$151,058	\$163,306	\$175,554	\$113,909	\$123,144	\$132,380
Option 4: Church Site, Addition & Renovation		51,066	\$150,513	\$162,717	\$174,921	\$102,034	\$110,307	\$118,580
General Notes:								
1. Pre-Charrette Options Include Unassigned/Available Space in Existing Church Building.								
2. Does not Include Option 1: Enclosed Vehicle, Traylor and Equipment Storage.								
3. Pre-Charrette Options 2 - 4 Do Not Include Option 2 - Replacement Vehicle and Equipment Storage or Option 3 – M. Work Camp								





Anticipated Project Schedule

Schedule Component	Pre-Charrette Option			
	Option 1:	Option 2:	Options 3:	Options 4:
	Existing Site, New Construction	Church Site, Addition & Renovation	Church Site, Addition & Renovation	Church Site, Addition & Renovation
Design	10 to 12 Months	8 to 10 Months	8 to 10 Months	8 to 10 Months
Bidding/Award	1.5 to 2 Months	1.5 to 2 Months	1.5 to 2 Months	1.5 to 2 Months
Construction	2 to 2.5 Years	1.5 to 2 Years	1.5 to 2 Years	2 to 2.5 Years
Total Duration	3.0 to 4.2 years	2.3 to 3 Years	2.3 to 3 Years	2.8 to 4 Years

Does Not Include Millage Duration

Advantages and Disadvantages

Houghton County Justice Center Master Plan Study Pre-Charrette Options Summary, Advantages and Disadvantages

Pre-Charrette Option 1: Existing Site, New Construction		Pre-Charrette Option 2: Church Site, Addition & Renovation		Pre-Charrette Option 3: Church Site, Addition & Renovation		Pre-Charrette Option 4: Church Site, New Construction	
<ul style="list-style-type: none"> Total Square Feet: 47,552 <ul style="list-style-type: none"> Demolition: 10,733 Renovation: 0 New Construction: 36,779 Unassigned Space: 0 Beds: 60 Opinion of Total Probable Mean Cost: \$35,381,826 Anticipated Construction Duration: 2.0 to 2.5 years 		<ul style="list-style-type: none"> Total Square Feet: 47,192 <ul style="list-style-type: none"> Demolition: 12,613 Renovation: 12,613 Addition: 24,166 Unassigned Space: 2,115 Beds: 60 Opinion of Total Probable Mean Cost: \$26,287,757 Anticipated Construction Duration: 1.5 to 2.0 years 		<ul style="list-style-type: none"> Total Square Feet: 43,827 <ul style="list-style-type: none"> Demolition: 7,048 Renovation: 7,048 Addition: 29,731 Unassigned Space: 7,379 Beds: 60 Opinion of Total Probable Mean Cost: \$29,497,286 Anticipated Construction Duration: 1.5 to 2.0 years 		<ul style="list-style-type: none"> Total Square Feet: 39,155 <ul style="list-style-type: none"> Demolition: 2,376 Renovation: 0 New Construction: 36,779 Unassigned Space: 11,911 Beds: 60 Opinion of Total Probable Mean Cost: \$33,7569,735 Anticipated Construction Duration: 2.0 to 2.5 years 	
Advantages		Disadvantages		Advantages		Disadvantages	
<ol style="list-style-type: none"> Achieves 2034 Does Not Require Vehicular Transportation and Related Costs to Courthouse. Public Location Identification. 		<ol style="list-style-type: none"> May Require More Space Due to Constraints of Existing Site. Requires Street Closure, City Cooperation and Possible Utility Relocation. Requires Property Acquisition. Requires Temporary Housing for Duration of Construction. Potential Major Operation Disruption. Difficult to Impossible Future Expansion. Does Not Address Security Parking. Potential Adverse Impact on Operational Efficiency (Multi-Story Building). More Costly Due to All New Construction. 		<ol style="list-style-type: none"> Achieves 2034 Architectural Space Program. Requires Street Closure, City Cooperation and Possible Utility Relocation. Does Not Require Additional Property Acquisition. Requires Temporary Housing for Duration of Construction. No Operation Disruption. Simple Future Expansion Opportunities. Addresses Security Parking. No Adverse Impact on Operational Efficiency (Single Story Building). Less Costly Due to Addition Renovation. 		<ol style="list-style-type: none"> Potential Initial Public Location Identification Challenges. Minimal Opportunity to Relocate Courts. Potential Cost of Vehicular Transportation to Courts. 	
<ol style="list-style-type: none"> Achieves 2034 Architectural Space Program. Requires Street Closure, City Cooperation and Possible Utility Relocation. Does Not Require Additional Property Acquisition. Requires Temporary Housing for Duration of Construction. No Operation Disruption. Simple Future Expansion Opportunities. Addresses Security Parking. No Adverse Impact on Operational Efficiency (Single Story Building). Less Costly Due to Addition Renovation. 		<ol style="list-style-type: none"> Potential Initial Public Location Identification Challenges. Medium Opportunity to Relocate Courts. Potential Cost of Vehicular Transportation to Courts. 		<ol style="list-style-type: none"> Achieves 2034 Architectural Space Program. Does Not Require Street Closure Cooperation or Utility Relocation. Requires Street Closure, City Cooperation and Possible Utility Relocation. Does Not Require Additional Property Acquisition. Requires Temporary Housing for Duration of Construction. No Operation Disruption. Simple Future Expansion Opportunities. Addresses Security Parking. No Adverse Impact on Operational Efficiency (Single Story Building). Maximum Opportunity to Relocate Courts. 		<ol style="list-style-type: none"> Potential Initial Public Location Identification Challenges. More Costly Due to All New Construction. Potential Cost of Vehicular Transportation to Courts. 	
							

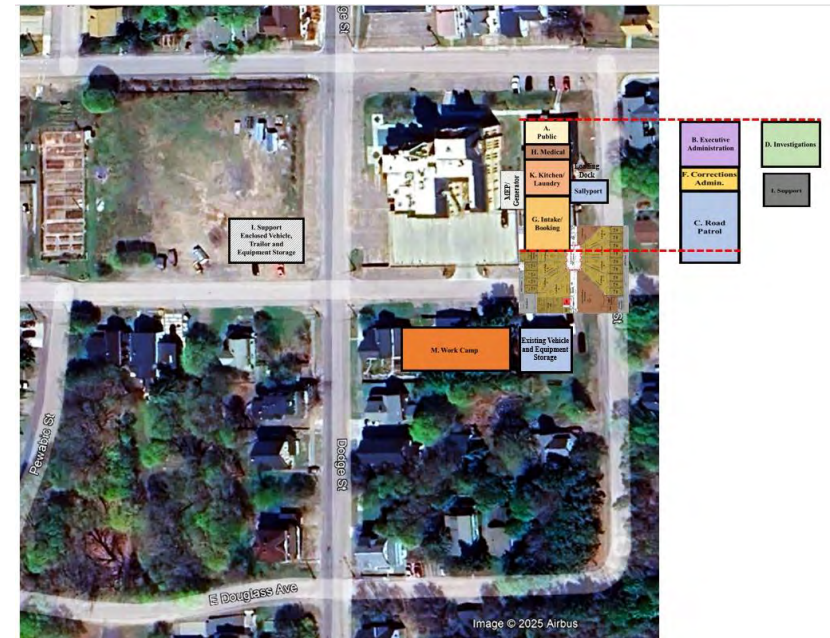
Lunch Break



Master Plan Charrette



Pre-Charrette Option 2



Pre-Charrette Option 1

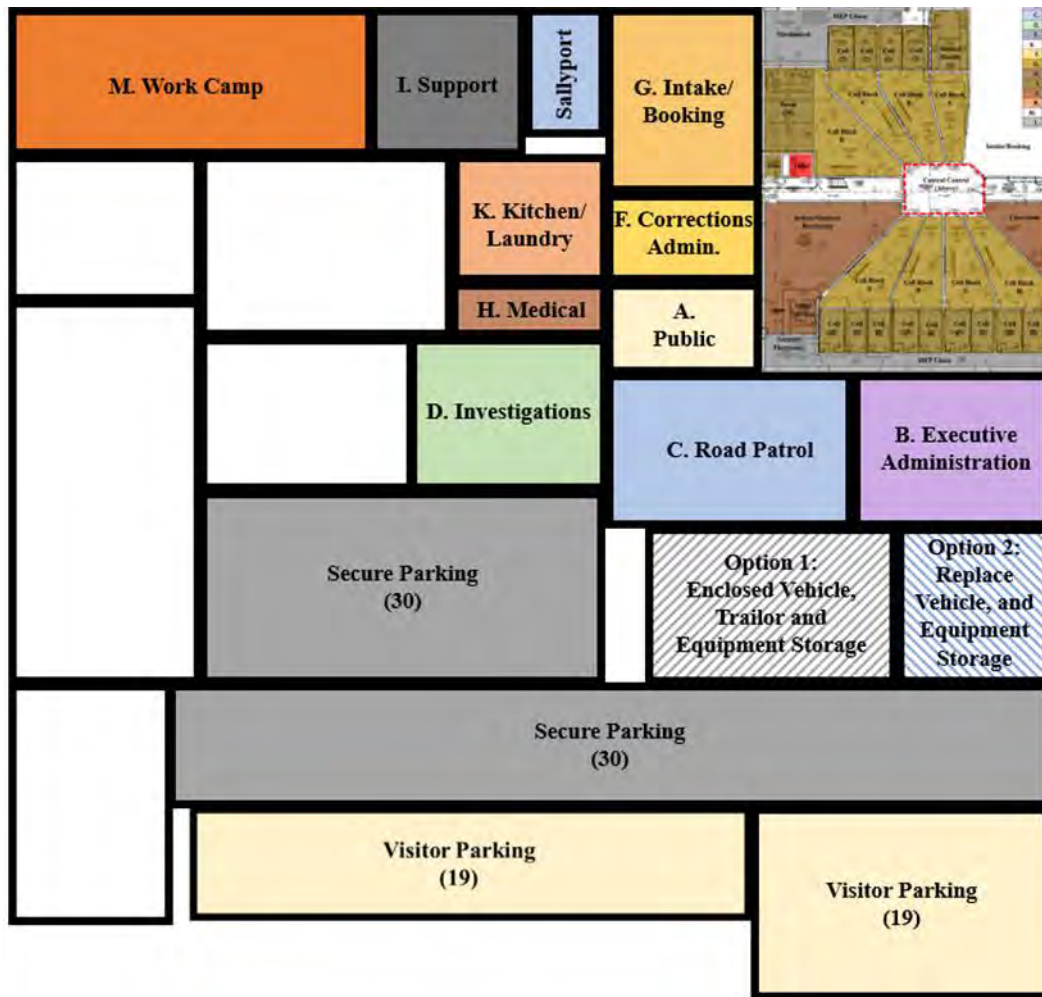


Pre-Charrette Option 4



Pre-Charrette Option 3

Master Plan Charrette



Master Plan Charrette



Pre-Charrette Option 2



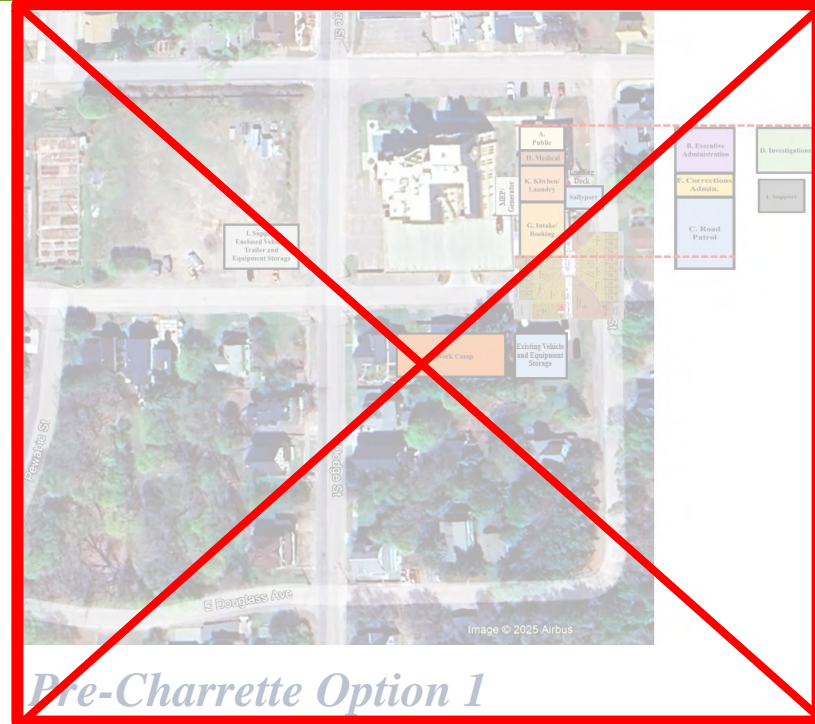
Pre-Charrette Option 4

- **Reasons for Pre-Charrette Option 1 Elimination:**

- More costly than all options.
- Requires temporary housing, property acquisition and street closure.
- More disadvantages than advantages.
- Major disruption to operations during construction.
- Longest construction duration.

- **Reasons for Pre-Charrette Option 3 Elimination:**

- More costly than option.
- Not enough remaining space for courts, related functions or county departments.
- Concern about mixed functions in same building.



Pre-Charrette Option 1



Pre-Charrette Option 3

Opinion of Probable Cost Summary

Option (60 Beds)	Opinion of Probable <u>Base</u> Cost Range			
	Low	Mean	High	Available Space
Pre-Charrette Options				
Option 1: Existing Site, New Construction	\$32,728,189	\$35,381,826	\$38,035,463	14,728+/-
Option 2: Church Site, Addition & Renovation	\$24,316,175	\$26,287,757	\$26,287,757	2,115
Option 3: Church Site, Addition & Renovation	\$27,284,089	\$29,497,286	\$31,709,582	7,379
Option 4: Church Site, Addition & Renovation	\$31,052,005	\$33,569,735	\$36,087,465	11,911

Base Cost Does Not Include the Following Options:





Pre-Charrette Inclusion Options	Opinion of Probable Cost Range		
	Low	Mean	High
Option 1: Enclosed Vehicle, Trailor and Equipment Storage	\$1,661,927	\$1,796,677	\$1,931,428
Option 2: Replacement Vehicle, and Equipment Storage	\$1,122,986	\$1,214,039	\$1,305,091
Option 3: M. Work Camp	\$2,376,461	\$2,569,147	\$2,761,833
Option 4: Add 10 Beds (70 Total)	\$1,133,202	\$1,225,083	\$1,316,964
Option 5: Add 20 Beds (80 Total)	\$2,266,404	\$ 2,450,166	\$2,633,928

Anticipated Project Schedule

Schedule Component	Pre-Charrette Option			
	Option 1: Existing Site, New Construction	Option 2: Church Site, Addition & Renovation	Options 3: Church Site Addition & Renovation	Options 4: Church Site, Addition & Renovation
Design	10 to 12 Months	8 to 10 Months	8 to 10 Months	8 to 10 Months
Bidding/Award	1.5 to 2 Months	1.5 to 2 Months	1.5 to 2 Months	1.5 to 2 Months
Construction	2 to 2.5 Years	1.5 to 2 Years	1.5 to 2 Years	2 to 2.5 Years
Total Duration	3.0 to 4.2 years	2.3 to 3 Years	2.3 to 3 Years	2.8 to 4 Years

Does Not Include Millage Duration

Advantages and Disadvantages

Houghton County Justice Center Master Plan Study Pre-Charrette Options Summary, Advantages and Disadvantages							
Pre-Charrette Option 1: Existing Site, New Construction		Pre-Charrette Option 2: Church Site, Addition & Renovation		Pre-Charrette Option 3: Church Site, Addition & Renovation		Pre-Charrette Option 4: Church Site, New Construction	
<ul style="list-style-type: none">• Total Square Feet: 47,552<ul style="list-style-type: none">- Demolition: 10,733- Renovation: 0- New Construction: 36,779- Unassigned Space: 0• Beds: 60• Opinion of Total Probable Mean Cost: \$35,381,826• Anticipated Construction Duration: 2.0 to 2.5 years		<ul style="list-style-type: none">• Total Square Feet: 47,192<ul style="list-style-type: none">- Demolition: 12,613- Renovation: 12,613- Addition: 24,166- Unassigned Space: 2,115• Beds: 60• Opinion of Total Probable Mean Cost: \$26,287,757• Anticipated Construction Duration: 1.5 to 2.0 years		<ul style="list-style-type: none">• Total Square Feet: 43,827<ul style="list-style-type: none">- Demolition: 7,048- Renovation: 7,048- Addition: 29,731- Unassigned Space: 7,379• Beds: 60• Opinion of Total Probable Mean Cost: \$29,497,246• Anticipated Construction Duration: 1.5 to 2.0 years		<ul style="list-style-type: none">• Total Square Feet: 39,155<ul style="list-style-type: none">- Demolition: 2,376- Renovation: 0- New Construction: 36,779- Unassigned Space: 11,911• Beds: 60• Opinion of Total Probable Mean Cost: \$33,756,735• Anticipated Construction Duration: 2.0 to 2.5 years	
Advantages		Advantages		Advantages		Advantages	
<ol style="list-style-type: none">1. Achieves 2034 Architectural Space Program.2. Does Not Require Vehicular Transportation and Related Costs to Courthouse.3. Public Location Identification.		<ol style="list-style-type: none">1. Achieves 2034 Architectural Space Program.2. Requires Street Closure, City Cooperation and Possible Utility Relocation.3. Does Not Require Additional Property Acquisition.4. Requires Temporary Housing for Duration of Construction.5. No Operation Disruption.6. Simple Future Expansion Opportunities.7. Addresses Security Parking.8. No Adverse Impact on Operational Efficiency (Single Story Building).9. Less Costly Due to Addition Renovation.		<ol style="list-style-type: none">1. Achieves 2034 Architectural Space Program.2. Requires Street Closure, City Cooperation and Possible Utility Relocation.3. Does Not Require Additional Property Acquisition.4. Requires Temporary Housing for Duration of Construction.5. No Operation Disruption.6. Simple Future Expansion Opportunities.7. Addresses Security Parking.8. No Adverse Impact on Operational Efficiency (Single Story Building).9. Less Costly Due to Addition Renovation.		<ol style="list-style-type: none">1. Achieves 2034 Architectural Space Program.2. Does Not Require Street Closure Cooperation or Utility Relocation.3. Requires Street Closure, City Cooperation and Possible Utility Relocation.4. Does Not Require Additional Property Acquisition.5. Requires Temporary Housing for Duration of Construction.6. No Operation Disruption.7. Simple Future Expansion Opportunities.8. Addresses Security Parking.9. No Adverse Impact on Operational Efficiency (Single Story Building).10. Maximum Opportunity to Relocate Courts.	
Disadvantages		Disadvantages		Disadvantages		Disadvantages	
<ol style="list-style-type: none">1. May Require More Space Due to Constraints of Existing Site.2. Requires Street Closure, City Cooperation and Possible Utility Relocation.3. Requires Property Acquisition.4. Requires Temporary Housing for Duration of Construction.5. Potential Major Operation Disruption.6. Difficult to Impossible Future Expansion.7. Does Not Address Security Parking.8. Potential Adverse Impact on Operational Efficiency (Multi-Story Building).9. More Costly Due to All New Construction.		<ol style="list-style-type: none">1. Potential Initial Public Location Identification Challenges.2. Minimal Opportunity to Relocate Courts.3. Potential Cost of Vehicular Transportation to Courts.		<ol style="list-style-type: none">1. Potential Initial Public Location Identification Challenges.2. Medium Opportunity to Relocate Courts.3. Potential Cost of Vehicular Transportation to Courts.		<ol style="list-style-type: none">1. Potential Initial Public Location Identification Challenges.2. More Costly Due to All New Construction.3. Potential Cost of Vehicular Transportation to Courts.	
							

Charrette Option 1:



- **Option Summary:**
 - Demolish church building complete.
 - Construct new justice center at current church building location.
- **Reasons for Option Elimination:**
 - More costly than the remaining options.
 - Reduced available effective site area for other options.



Charrette Scenario Options

1. **Move only courts, no related support functions, to church site:**
 - a. Utilize remaining space in courthouse for other functions.

Scenario eliminated – Courts and related functions are a system and need to be together for operational and staff efficiency.
2. **Move all courts and related support functions, to church site:**
 - a. Utilize remaining space in courthouse for other functions.
3. **Move all courts, related support functions and county to church site:**
 - a. Sell existing courthouse for redevelopment.
4. **Move only county functions to church site:**
 - a. Renovate the remaining space to address court, support function needs and separation of public, secure staff and secure inmate circulation patterns.
5. **Don't move courts or county functions, renovate courthouse to address separation of public, secure staff and secure inmate circulation patterns. Address secure inmate transportation to courts from church site.**
6. **Demolish the existing sheriff's office and corrections facility and either leave undeveloped or construct parking:**
 - a. Leave undeveloped for future needs.
 - b. Construct new parking lot to address parking needs.
 - c. Sell property for redevelopment.
7. **Complete corrective work as applicable and utilize the existing sheriff's office and corrections for other needs:**
 - a. Work Camp, or Courts and County Storage

Major Charrette Conclusions

- **Eliminate Pre-Charrette Options 1 and 3.**
- **Eliminate Charrette Option 1.**
- **Complete Conceptual Design of Pre-Charrette Options 2 and 4:**
 - Include cost of a small multi-purpose courtroom in Pre-Charrette Option 2 to potentially reduce inmate transportation to courthouse.
- **Develop Cost Options for the Remaining 6 Scenario Options and Define as Options for the Board of County Commissioners' Selection.**
- **Define Potential Funding Options and Taxpayer Impact.**
- **A Post-Charrette Step is not Required, the Board of County Commissioners Will Make Final Decision(s).**
- **Complete and Issue Draft and Final Reports for Review and Comments.**
- **Develop and Conduct Board of County Commissioners Presentation**