SPACE VEHICLES DIRECTORATE

HANSCOM AFB

DCN 6753

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BATTLESPACE ENVIRONMENT DIVISION

CHIEF, Dr. Robert Morris
DEPUTY, Dr. Susan Arnold
TECH ADVISOR, Dr. William Blumberg
(VSB)

Space Weather Center of Excellence
(VSBX)
Chief, Dr. Joel Mozer
Deputy, Captain Kristofer Labowski
Tech Advisor, Dr. David Cooke

- **Ionospheric Hazards Specification & Forecast Section (VSBXI) Mr. Jim Battis (Acting)**
- **Space Plasma Disturbance Specification & Forecast Section (VSBXP) Dr. Odile de la Beaujardiere**
- **Energetic Particle Specification & Forecast Section (VSBXR) Dr. Katharine Kadinsky-Cade**
- **Space Weather Effects Section (VSBXT) Dr. Donald Hunton**
- **Solar and Solar Wind Disturbance Prediction Section (VSBXS) Dr. Richard Radick**

Battlespace Surveillance Innovation Center
(VSBY)
Chief, Dr. Robert Beland
Deputy, Mr. Allan Bussey
Tech Advisor, Dr. Steve Price

- **Spectral Surveillance Technologies Section (VSBYH) Dr. John Schummers**
- **Advanced Capabilities Section (VSBYM) Mr. Paul Tracy**
- **IR Clutter Assessment Section (VSBYB) Ms. Delia Donatelli**
- **Threat Detection Section (VSBYE) Dr. Rick Schult**
- **Atmospheric Impacts Section (VSBYA) Mr. Donald Norquist**

HANSCOM RESEARCH SITE

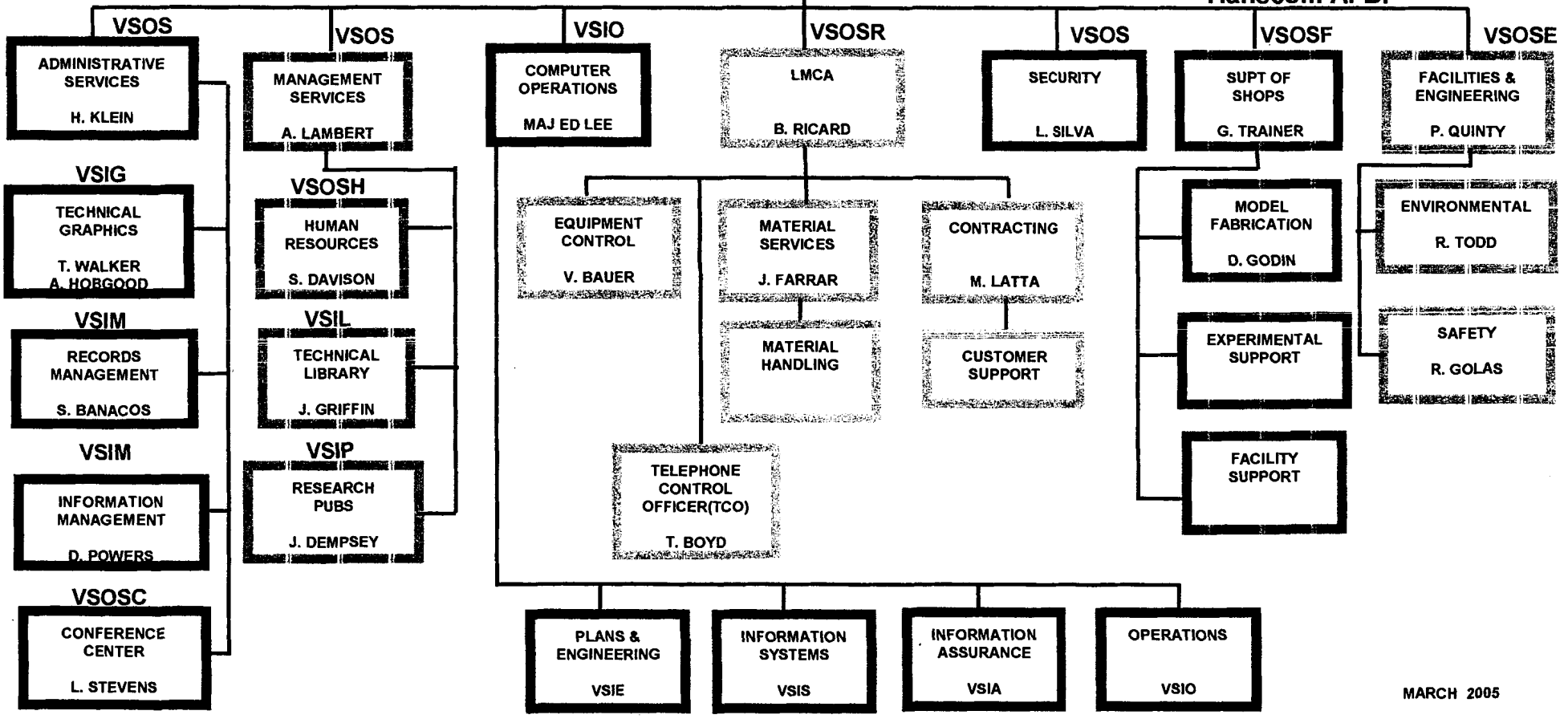
OPERATIONS AND SUPPORT CORPORATE INFORMATION OFFICE

SPACE VEHICLES DIRECTORATE

Chief and CIO, Lou Michaud
Deputy CIO, Major Ed Lee
Administrative Officer, Heidi Klein
Financial Analyst, Cheryrl Pleuler

MISSION

To provide operational and support services essential to the discovery, development, and transition of technology for Space Vehicles Directorate at Hanscom AFB.



MARCH 2005

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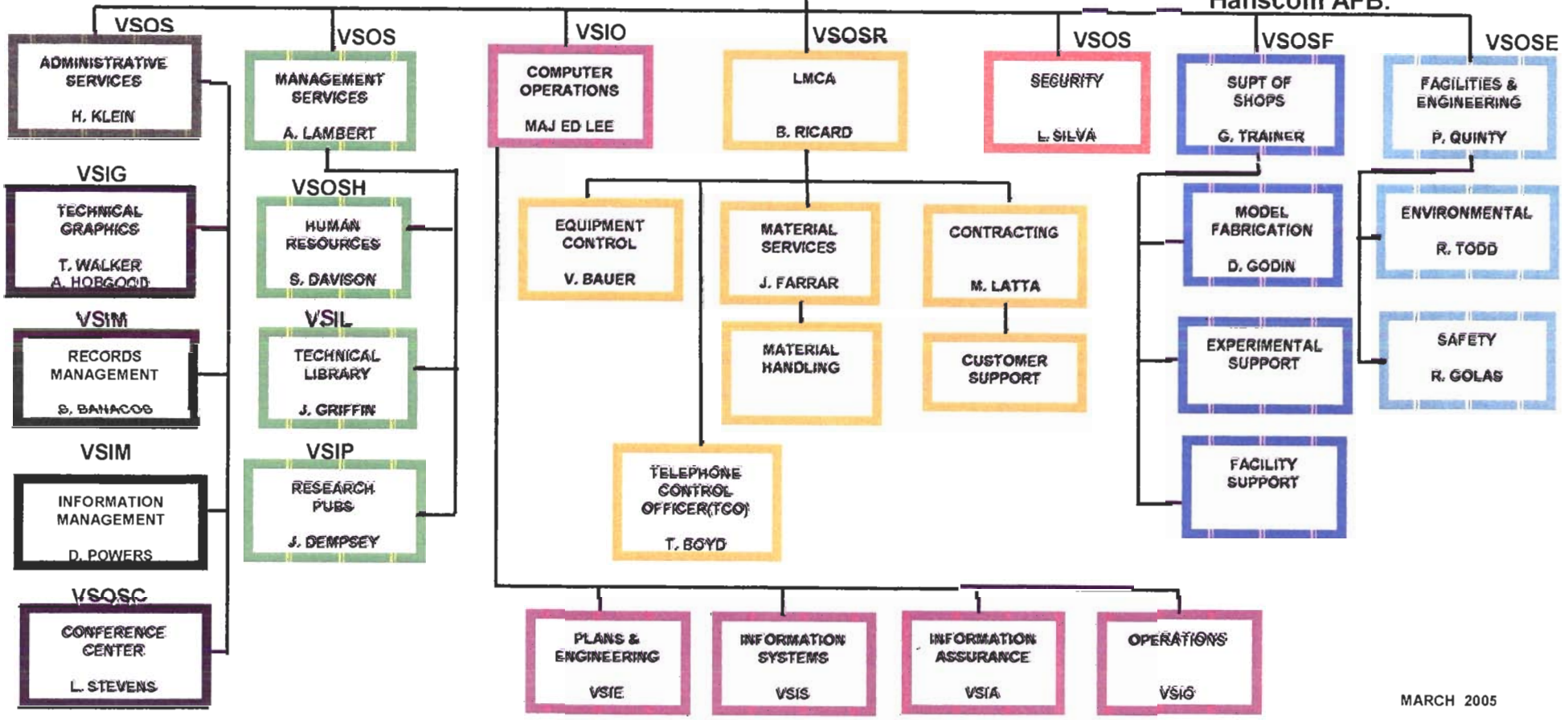

MARCH 2005

SPACE VEHICLES DIRECTORATE
KIRTLAND AFB, NEW MEXICO

VSB	* VSI/VSOS	VSF	VSOT
BATTLESPACE ENVIRONMENT DIVISION	OPERATION AND SUPPORT DIVISION	FINANCIAL SUPPORT BRANCH	TECHNOLOGY OUTREACH BRANCH
129 CIV	53 CIV	7 CIV	5 CIV
60 KTR	32 KTR	3 KTR	0 KTR
38 MIL			

*** VSI & VSOS DOES NOT RELOCATE TO KIRTLAND AFB**

Entire Location

FSDV	0018872	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0018873	62601A	SVSO	600000	036P3	00301	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0018874	62601A	SVSB	620000	062E3A	00861	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0018934	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0019704	62601A	SVSB	620000	061S3D	01301	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0020413	62601A	SVSO	669900	2S071	06901	WG-07	WG-07	CIV	7		HANSCOM	1
FSDV	0020752	62601A	SVSO	660000	3A071	01082	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0020766	62601A	SVSF	151A00	065F3	00501	GS-13	GS-13	CIV	7	2K	HANSCOM	1
FSDV	0020767	62601A	SVSF	151A00	6F051	00560	GS-09	GS-09	CIV	7	1K	HANSCOM	1
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FSDV	0020811	62601A	SVSB	600000	036M3	00301	GS-12	GS-12	CIV	7		HANSCOM	1
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FSDV	0020826	62601A	SVSO	600000	061S3D	01301	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020830	62601A	SVSO	600000	065F3	00343	GS-12	GS-12	CIV	7		HANSCOM	1
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FSDV	0020914	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
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FSDV	0021082	62601A	SVSB	620000	062E3E	01301	GS-12	GS-12	CIV	8		HANSCOM	1
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→ FSDV	0021097	62601A	SVSE	620000	061S3C	01320	GS-15	GS-15	CIV	7	5S	HANSCOM	1
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FSDV	0021109	62601A	SVSB	620000	3A051	00318	GS-05	GS-05	CIV	7		HANSCOM	1
FSDV	0021112	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	8	5S	HANSCOM	1
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FSDV	0021119	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021120	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
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FSDV	0021129	62601A	SVSB	620000	2E171	00856	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021140	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	5	5S	HANSCOM	1
FSDV	0021144	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1

FSDV	0021146	62601A	SVSB	620000	065F3	00343	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021147	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021148	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021150	62601A	SVSB	620000	062E3H	00830	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0021151	62601A	SVSB	620000	065F3	00343	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021156	62601A	SVSO	620000	061S3D	01310	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021157	62601A	SVSB	620000	061S3C	01320	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021161	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021162	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	7		HANSCOM	1
FSDV	0021163	62601A	SVSB	620000	061S3C	01320	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021172	62601A	SVSO	669900	2S071	02003	GS-09	GS-09	CIV	7		HANSCOM	1
FSDV	0021180	62601A	SVSO	660000	2A771	04714	WS-15	WS-15	CIV	7		HANSCOM	1
FSDV	0021181	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021182	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021184	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021186	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021190	62601A	SVSO	660000	3E051	02805	WL-11	WL-11	CIV	8		HANSCOM	1
FSDV	0021197	62601A	SVSO	660000	021R3	00340	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021198	62601A	SVSB	620000	021R3	00346	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021200	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7	5S	HANSCOM	1
FSDV	0021203	62601A	SVSO	600000	3S051	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021214	62601A	SVSB	620000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021227	62601A	SVSI	660000	033S3	02210	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021228	62601A	SVSO	600000	035P3	01071	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021229	62601A	SVSO	600000	036P3	00343	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021230	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021233	62601A	SVSO	669900	2S090	02003	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021236	62601A	SVSO	669900	2S071	02003	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021240	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021242	62601A	SVSO	669900	2S071	02003	GS-09	GS-09	CIV	7		HANSCOM	1
FSDV	0021248	62601A	SVSO	669900	2S051	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021249	62601A	SVSO	669900	2S071	06907	WS-07	WS-07	CIV	7		HANSCOM	1
FSDV	0021250	62601A	SVSO	669900	2S071	06901	WG-07	WG-07	CIV	7		HANSCOM	1
FSDV	0181766	62601A	SVSO	660000	032E3G	00801	DR-03	DR-03	CIV	7		HANSCOM	1
FSDV	0185854	62601A	SVSO	620000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1

FSDV	0201862	62601A	SVSO	660000	031P3	00086	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0234567	62601A	SVSI	154000	062E3E	00855	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0252482	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	7		HANSCOM	1
FSDV	0258627	62601A	SVSI	154000	061S3A	01550	DR-03	DR-03	CIV	7	5R	HANSCOM	1
FSDV	0258628	62601A	SVSI	154600	3C071	00332	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0258680	62601A	SVSI	660000	3A071	00303	GS-07	GS-07	CIV	8		HANSCOM	1
FSDV	0258682	62601A	SVSO	600000	036P3	00301	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0258683	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0258684	62601A	SVSB	620000	061S3D	01310	DR-03	DR-03	CIV	7	5S	HANSCOM	1
FSDV	0258685	62601A	SVSO	660000	2A771	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0258686	62601A	SVSO	600000	034M3	01001	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0258687	62601A	SVSO	669900	2S071	02001	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0258688	62601A	SVSO	600000	3A071	00341	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0258689	62601A	SVSO	669900	2S071	06901	WG-07	WG-07	CIV	7		HANSCOM	1
FSDV	0258690	62601A	SVSO	669900	2S051	06912	WG-07	WG-07	CIV	7		HANSCOM	1
FSDV	0280472	62601A	SVSI	154000	061S3A	01550	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0291237	62601A	SVSI	660000	033S3	01083	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0342324	62601A	SVSB	620000	061S3D	01313	GS-15	GS-15	CIV	5		HANSCOM	1
FSDV	0342325	62601A	SVSB	620000	061S3D	01313	GS-15	GS-15	CIV	5		HANSCOM	1
FSDV	0342326	62601A	SVSB	620000	061S3D	01320	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0342327	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
TOTAL													**194**

Entire VSB
17 Support

FSDV	0018872	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0018874	62601A	SVSB	620000	062E3A	00861	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0019704	62601A	SVSB	620000	061S3D	01301	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0020811	62601A	SVSB	600000	036M3	00301	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0020825	62601A	SVSB	620000	062E3E	00855	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0020833	62601A	SVSB	600000	061S3D	01301	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020878	62601A	SVSB	620000	062E3A	00861	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0020886	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0020887	62601A	SVSB	620000	061S3D	01301	DR-03	DR-03	CIV	7		HANSCOM	1
FSDV	0020899	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0020903	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020911	62601A	SVSB	660000	061S3D	01310	GS-13	GS-13	CIV	8		HANSCOM	1
FSDV	0020913	62601A	SVSB	620000	015W3A	01340	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020918	62601A	SVSB	620000	015W3A	01340	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0020919	62601A	SVSB	620000	015W3A	01340	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0020920	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	8		HANSCOM	1
FSDV	0020924	62601A	SVSB	600000	061S3D	01301	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020926	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0020931	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0020932	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020935	62601A	SVSB	620000	015W3A	01340	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020936	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020938	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0020939	62601A	SVSB	620000	061S3D	01301	DR-02	DR-02	CIV	7		HANSCOM	1
FSDV	0020942	62601A	SVSB	620000	061S3E	01520	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0020943	62601A	SVSB	620000	015W3A	01340	DR-03	DR-03	CIV	7		HANSCOM	1
FSDV	0020949	62601A	SVSB	620000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0020950	62601A	SVSB	620000	3A051	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0020954	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020964	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0020973	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020974	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020975	62601A	SVSB	620000	061S3C	01301	DR-04	DR-04	CIV	5	5S	HANSCOM	1

FSDV	0020976	62601A	SVSB	620000	061S3D	01310	DR-03	DR-03	CIV	7	5S	HANSCOM	1
FSDV	0020977	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020978	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1
FSDV	0020980	62601A	SVSB	620000	061S3C	01320	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0020983	62601A	SVSB	620000	061S3D	01301	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0020985	62601A	SVSB	620000	062E3E	00855	GS-13	GS-13	CIV	8		HANSCOM	1
FSDV	0020986	62601A	SVSB	620000	061S3D	01320	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0020989	62601A	SVSB	620000	3A051	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0020990	62601A	SVSB	620000	061S3C	01320	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020991	62601A	SVSB	620000	015W3A	01340	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0020992	62601A	SVSB	620000	061S3D	01301	GS-13	GS-13	CIV	5	2S	HANSCOM	1
FSDV	0020994	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0020997	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0020999	62601A	SVSB	620000	061S3D	01310	DR-03	DR-03	CIV	7		HANSCOM	1
FSDV	0021000	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021001	62601A	SVSB	620000	061S3E	01520	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021002	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0021009	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0021010	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021013	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021015	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021016	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021018	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021019	62601A	SVSB	620000	062E3E	00855	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021021	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0021022	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	5	5S	HANSCOM	1
FSDV	0021023	62601A	SVSB	600000	065F3	00343	GS-12	GS-12	CIV	7	1K	HANSCOM	1
FSDV	0021024	62601A	SVSB	620000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021026	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	5	5S	HANSCOM	1
FSDV	0021027	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021028	62601J	SVSB	620000	061S3D	01301	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021029	62601A	SVSB	600000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021030	62601A	SVSB	620000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021031	62601A	SVSB	620000	3A071	00301	GS-09	GS-09	CIV	7		HANSCOM	1
FSDV	0021044	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1

FSDV	0021047	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021048	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021049	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021053	62601A	SVSB	660000	2E171	00856	GS-12	GS-12	CIV	5		HANSCOM	1
FSDV	0021064	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021066	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	5		HANSCOM	1
FSDV	0021067	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1
FSDV	0021069	62601A	SVSB	620000	061S3D	01301	DR-04	DR-04	CIV	5		HANSCOM	1
FSDV	0021073	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021075	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021082	62601A	SVSB	620000	062E3E	01301	GS-12	GS-12	CIV	8		HANSCOM	1
FSDV	0021086	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1
FSDV	0021088	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021089	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021091	62601A	SVSB	620000	062E3E	00855	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021092	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	5	5S	HANSCOM	1
FSDV	0021093	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	5		HANSCOM	1
FSDV	0021094	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021095	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021096	62601A	SVSB	620000	061S3D	01301	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021098	62601A	SVSB	620000	061S3D	01310	DR-03	DR-03	CIV	7	5S	HANSCOM	1
FSDV	0021099	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021100	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021101	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0021104	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021106	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021107	62601A	SVSB	620000	061S3C	01550	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021108	62601A	SVSB	620000	033S3	02210	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021109	62601A	SVSB	620000	3A051	00318	GS-05	GS-05	CIV	7		HANSCOM	1
FSDV	0021112	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	8	5S	HANSCOM	1
FSDV	0021117	62601A	SVSB	620000	061S3D	01330	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021118	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021119	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0021120	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021121	62601A	SVSB	620000	062E3E	00855	GS-13	GS-13	CIV	7	2S	HANSCOM	1

FSDV	0021122	62601A	SVSB	620000	061S3D	01330	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021123	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021124	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021125	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	5	2S	HANSCOM	1
FSDV	0021129	62601A	SVSB	620000	2E171	00856	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021140	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	5	5S	HANSCOM	1
FSDV	0021144	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	5	5S	HANSCOM	1
FSDV	0021146	62601A	SVSB	620000	065F3	00343	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021147	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021148	62601A	SVSB	620000	061S3D	01310	GS-15	GS-15	CIV	7	5S	HANSCOM	1
FSDV	0021150	62601A	SVSB	620000	062E3H	00830	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0021151	62601A	SVSB	620000	065F3	00343	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021157	62601A	SVSB	620000	061S3C	01320	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021161	62601A	SVSB	620000	061S3D	01310	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0021162	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	7		HANSCOM	1
FSDV	0021163	62601A	SVSB	620000	061S3C	01320	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021198	62601A	SVSB	620000	021R3	00346	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021200	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7	5S	HANSCOM	1
FSDV	0021214	62601A	SVSB	620000	065F3	00343	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0252482	62601A	SVSB	620000	061S3D	01310	DR-04	DR-04	CIV	7		HANSCOM	1
FSDV	0258683	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0258684	62601A	SVSB	620000	061S3D	01310	DR-03	DR-03	CIV	7	5S	HANSCOM	1
FSDV	0342324	62601A	SVSB	620000	061S3D	01313	GS-15	GS-15	CIV	5		HANSCOM	1
FSDV	0342325	62601A	SVSB	620000	061S3D	01313	GS-15	GS-15	CIV	5		HANSCOM	1
FSDV	0342326	62601A	SVSB	620000	061S3D	01320	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0342327	62601A	SVSB	620000	061S3D	01310	GS-13	GS-13	CIV	7		HANSCOM	1
TOTAL													**129**

17 Support
112 S&E

Also includes 10 enlisted &
25 officers in VSB &
3 officers in CCG

3 S+E (VSOT) Emil VSO

FSDV	0018873	62601A	SVSO	600000	036P3	00301	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0018934	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0020413	62601A	SVSO	669900	2S071	06901	WG-07	WG-07	CIV	7		HANSCOM	1
FSDV	0020752	62601A	SVSO	660000	3A071	01082	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0020793	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0020797	62601A	SVSO	660000	031P3	00080	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0020810	62601A	SVSO	600000	036M3	00340	GS-15	GS-15	CIV	7		HANSCOM	1
FSDV	0020826	62601A	SVSO	600000	061S3D	01301	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020830	62601A	SVSO	600000	065F3	00343	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0020884	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0020914	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0020928	62601A	SVSO	660000	2A771	04714	WS-13	WS-13	CIV	8		HANSCOM	1
FSDV	0020993	62601A	SVSO	600000	3A051	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021008	62601A	SVSO	669900	2S031	00303	GS-03	GS-03	CIV	7		HANSCOM	1
FSDV	0021032	62601A	SVSO	660000	3V071	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021074	62601A	SVSO	620000	061S3E	01320	GS-14	GS-14	CIV	5		HANSCOM	1
FSDV	0021156	62601A	SVSO	620000	061S3D	01310	DR-04	DR-04	CIV	7	5S	HANSCOM	1
FSDV	0021172	62601A	SVSO	669900	2S071	02003	GS-09	GS-09	CIV	7		HANSCOM	1
FSDV	0021180	62601A	SVSO	660000	2A771	04714	WS-15	WS-15	CIV	7		HANSCOM	1
FSDV	0021181	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021182	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021184	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021186	62601A	SVSO	660000	2A751	04714	WG-14	WG-14	CIV	8		HANSCOM	1
FSDV	0021190	62601A	SVSO	660000	3E051	02805	WL-11	WL-11	CIV	8		HANSCOM	1
FSDV	0021197	62601A	SVSO	660000	021R3	00340	GS-14	GS-14	CIV	7		HANSCOM	1
FSDV	0021203	62601A	SVSO	600000	3S051	00303	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021228	62601A	SVSO	600000	035P3	01071	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021229	62601A	SVSO	600000	036P3	00343	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0021230	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021233	62601A	SVSO	669900	2S090	02003	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021236	62601A	SVSO	669900	2S071	02003	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0021240	62601A	SVSO	669900	2S071	02005	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0021242	62601A	SVSO	669900	2S071	02003	GS-09	GS-09	CIV	7		HANSCOM	1

VS I SF

FSDV	0020766	62601A	SVSF	151A00	065F3	00501	GS-13	GS-13	CIV	7	2K	HANSCOM	1
FSDV	0020767	62601A	SVSF	151A00	6F051	00560	GS-09	GS-09	CIV	7	1K	HANSCOM	1
FSDV	0020768	62601A	SVSF	151A00	065F3	00560	GS-12	GS-12	CIV	7	1K	HANSCOM	1
FSDV	0020769	62601A	SVSF	151A00	065F3	00560	GS-11	GS-11	CIV	7	1K	HANSCOM	1
FSDV	0020771	62601A	SVSF	151A00	065F3	00560	GS-11	GS-11	CIV	7	1K	HANSCOM	1
FSDV	0020773	62601A	SVSF	151A00	3A051	00318	GS-05	GS-05	CIV	8		HANSCOM	1
FSDV	0020780	62601A	SVSI	154000	062E3E	00855	GS-14	GS-14	CIV	7	5S	HANSCOM	1
FSDV	0020798	62601A	SVSI	38BA00	3V071	01020	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0020800	62601A	SVSI	38BA00	3V071	01020	GS-09	GS-09	CIV	7		HANSCOM	1
FSDV	0020832	62601A	SVSF	151A00	065F3	00560	GS-12	GS-12	CIV	7	1K	HANSCOM	1
FSDV	0020915	62601A	SVSI	600000	033S3	02210	GS-12	GS-12	CIV	7		HANSCOM	1
FSDV	0021227	62601A	SVSI	660000	033S3	02210	GS-11	GS-11	CIV	7		HANSCOM	1
FSDV	0234567	62601A	SVSI	154000	062E3E	00855	GS-13	GS-13	CIV	7	2S	HANSCOM	1
FSDV	0258627	62601A	SVSI	154000	061S3A	01550	DR-03	DR-03	CIV	7	5R	HANSCOM	1
FSDV	0258628	62601A	SVSI	154600	3C071	00332	GS-07	GS-07	CIV	7		HANSCOM	1
FSDV	0258680	62601A	SVSI	660000	3A071	00303	GS-07	GS-07	CIV	8		HANSCOM	1
FSDV	0280472	62601A	SVSI	154000	061S3A	01550	GS-13	GS-13	CIV	7		HANSCOM	1
FSDV	0291237	62601A	SVSI	660000	033S3	01083	GS-12	GS-12	CIV	7		HANSCOM	1
TOTAL													**18**

POINT PAPER ON

AFRL/VS UNIT AT HANSCOM AFB, MA

PURPOSE

- Respond to BRAC Commission analyst, Mr. Les Farrington's, telephone request for additional details on the AFRL/VS unit located at Hanscom AFB, MA

BACKGROUND

- AFRL's Space Vehicles Directorate (AFRL/VS), which is headquartered at Kirtland AFB, NM, has a sizable operating location at Hanscom AFB, MA. The VS personnel at Hanscom are primarily in AFRL/VSB (the Battlespace Environment Division), with a smaller number of personnel in the operations and financial support divisions, VSO, VSI, and VSF.

- The SECDEF's recommendation to the BRAC Commission is to realign AFRL/VS-Hanscom to Kirtland AFB, NM. This point paper is being provided at the request of the BRAC Commission staff. Wherever possible, information contained in this document has been verified against data provided during the numerous BRAC data calls.

VSB MISSION & PROGRAMS

- VSB is the AF's acknowledged expert on the battlespace environment and its effect on AF weapon systems, especially space and C3ISR systems. It is a full-spectrum R&D organization, with activities spanning the entire range from basic research to direct warfighter support.

- The primary mission of VSB is to detect and understand threats to warfighting systems from the aerospace environment across the full range of natural and man-made sources and to provide active and passive means to eliminate, mitigate, and/or exploit such threats. VSB also has important technical responsibilities in supporting some non-space areas, most notably underground nuclear explosion monitoring.

- One area of investigation includes Space Environment Hazards and Technology, with R&D efforts executed through the following programs in VSB's Space Weather Center of Excellence:

  - Solar Disturbance Prediction
  - Space Particle Hazards
  - Radiation Belt Remediation
  - High Frequency Active Auroral Research Program
  - Ionospheric Impacts

- VSB's Space Weather Center of Excellence has been repeatedly recognized by the AF Science Advisory Board as a pre-eminent research group with world-class personnel and programs.

Dr. Susan Arnold / VSB / 781-377-1683 / 1 July 05

- In VSB's Battlespace Surveillance Innovation Center, C3ISR Phenomenology is addressed through the following R&D programs

- Spectral Surveillance Technologies (Hyperspectral Imaging)
- Signature Exploitation (Hypertemporal Imaging)
- Atmospheric Turbulence
- IR Backgrounds and Clutter Mitigation
- Nuclear Explosion Monitoring

- The product center most closely aligned with the R&D conducted at VSB is SMC, which is in AFSPC. Major AF customers include AFSPC, AFWA, ACC, AFTAC, and AFOSR. Other major customers within DoD include DARPA, NRO, MDA, NGA, Army, USSTRATCOM, and USSOCOM.

VSB FUNDING PROFILE

- The VSB annual budget for FY04 was ~ $80M, a slight increase from the numbers provided in the BRAC data calls ($79M, $66M, and $77M for FY01 – FY03, respectively). Approximately 60% of the annual budget is put on contract to support both intramural and extramural research efforts.

- VSB leverages core AF S&T investments by successfully competing for additional funding from other AF, DoD, intel, civil, and industrial customers. Below is the funding profile for FY04:

AF core S&T (6.1, 6.2, 6.3) = $44.5M
Congressional Adds = $7.1M
SBIR funding = $2.7M
Other funding = $25.1M

VS-HANSCOM PERSONNEL

- The current personnel baseline for all VS-Hanscom is approximately 225 civilians, 62 military, and 55 in-house contractors. The VSB workforce (~250 people total) is highly educated; of the ~ 170 government scientists/engineers in VSB, half have a Ph.D. The ~ 90 technical support personnel at VS-Hanscom include those providing shared support to AFRL/SN-Hanscom.

- In the BRAC scenario data call regarding a potential realignment of VS-Hanscom to Kirtland, it was estimated that 242 total civ/mil/ktr positions would be transferred, the difference due to a reduction in support personnel and CGO positions (currently overmanned).

- As indicated in that BRAC scenario data submission, during previous AFRL realignments from Hanscom to Kirtland, approximately 1 in 6 civilian employees have accepted the offer to move.

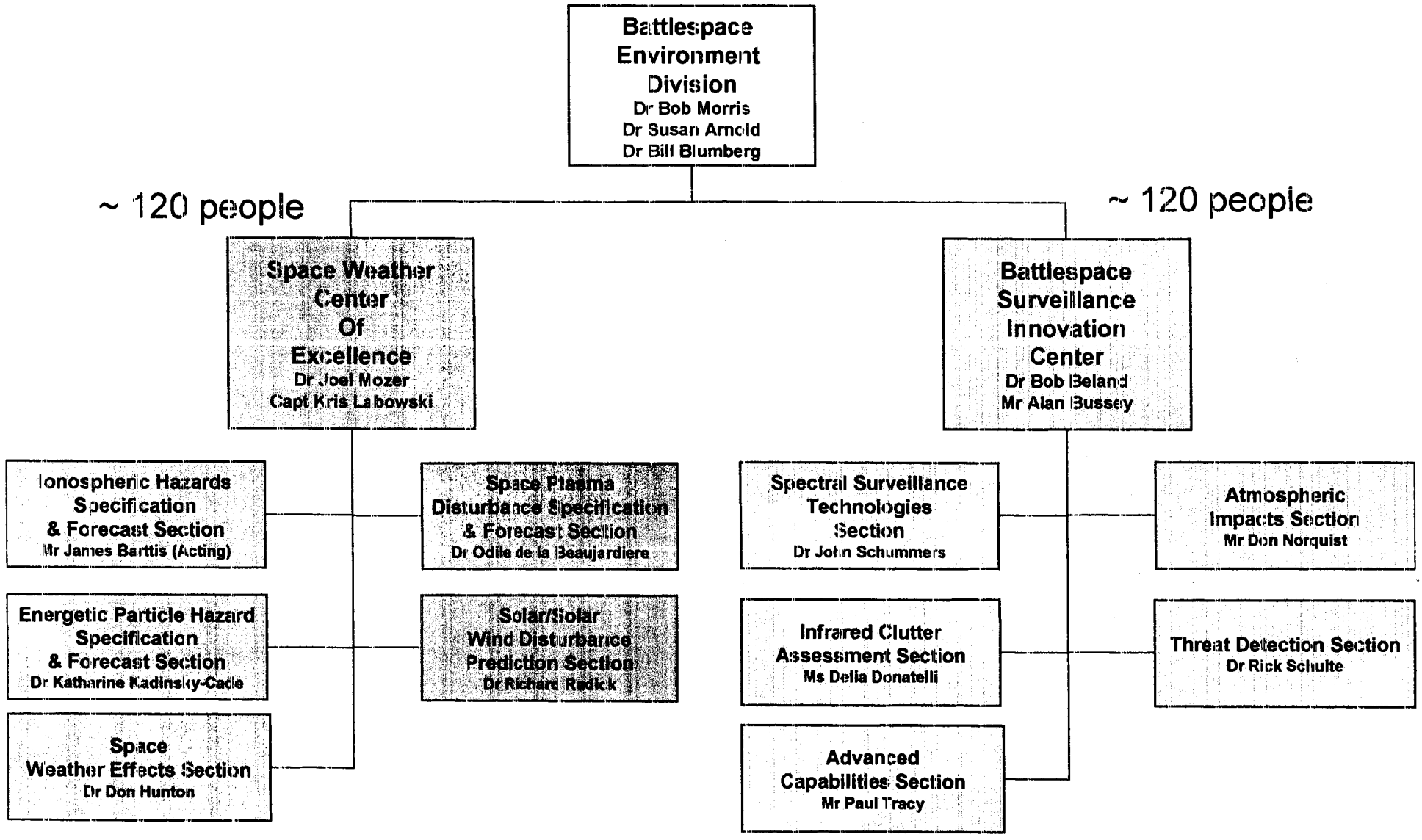
AFRL Space Vehicles Directorate Battlespace Environment Division (AFRL/VSB) Overview Briefing

Dr Robert Morris
Chief, Battlespace Environment Division
Space Vehicles Directorate
Air Force Research Laboratory

VSB and its Mission

- Mission: "Specify, forecast, mitigate, and exploit environmental impacts to enable next-generation and generation-after-next space systems"
  - Also have responsibilities in atmospherics and other non-space areas
- Technical Areas:
  - Space Environment Hazards and Technology
  - C3ISR Phenomenology
- Major Customers:
  - AF: AFSPC, AFTAC, AFWA, ACC, AFOSR
  - DoD: DARPA, NRO, MDA, NGA (NIMA), Army, USSTRATCOM, USSOCOM
  - Other: NASA, NOAA, Northrop-Grumman

VSB Organization



VSB Programs

- Space Weather Center of Excellence (VSBX): Space Environment Hazards
  - Solar Disturbance Prediction
  - Space Particle Hazards
  - Radiation Belt Remediation
  - High-frequency Active Auroral Research Program
  - Ionospheric Impacts
  - Ballistic Missile Technology
  - Nanotechnologies (6.1 only)
- Battlespace Surveillance Innovation Center (VSBY): C3ISR Phenomenology
  - Spectral Surveillance Technologies (Hyperspectral Imaging)
  - Signature Exploitation (Hypertemporal Imaging)
  - Background Clutter Mitigation
  - Atmospheric Turbulence
  - Nuclear Explosion Monitoring
  - Cold Atom Optics (6.1 only)

Solar Disturbance Prediction

- Goal: 72 hr forecast of solar events, space situation awareness, improved survivability
- Challenges
  - Physics-based models of sun
  - Systems impacts of solar events
- Major Components
  - Solar Mass Ejection Imager (SMEI) on Navy Coriolis Satellite
  - National Solar Observatory (NSO) at Sunspot, NM
  - Modeling and theory development
- Recent Product: Solar Radio Burst Effects module in SEEFS (delivered to AFSPC)

Space Particle Hazards

- Goal: develop technologies to improve DoD capability to specify, forecast, and control the space particle environment
  - Reduce acquisition & ops costs
  - Improve Space Situational Awareness
- Challenges:
  - Specifying global, broad energy phenomena on many time scales
  - Predicting complex wave-particle interactions
  - Mitigating effects on space systems
- Major Components:
  - Sensor Development (e.g., CEASE)
  - Models (e.g., NASCAP-2K)
  - Particle Control Technologies
- Recent Products: AFGEOSPACE delivered to AFWA SWOC, CEASE on DSP-21/TSX-5

High-frequency Active Auroral Research Program (HAARP)

- Goal: control/exploit triggered ionospheric processes for DoD applications (satellite protection for DCS, submarine comm, UGF imaging, sensor spoofing)
  - Joint with DARPA, Navy
- Challenges:
  - Understanding & exploiting ionospheric phenomenology
  - Determining which processes are of the most use
  - Arctic environment
- Major Components
  - Facility Completion (POM'd $118M program to build to full planned power of 3.6MW)--Oct 06 IOC
  - Research Campaigns (universities, AF, DARPA, OSD)
- Recent Discoveries: artificial airglow effects never seen before

Radiation Belt Remediation

- Goal: DCS; save LEO satellites from effects of High Altitude Nuclear Detonation (HAND)
  - Joint with DARPA
  - Only currently viable option for DoD
- Challenges
  - Generating and amplifying VLF waves
  - Propagating VLF waves
- Major Components
  - Ground Experiments (e.g.,HAARP and buoy off New Zealand)
  - Deployable Structures Experiment satellite
  - Extensive modeling

Ionospheric Impacts

- Goal: forecast, mitigate, exploit ionospheric effects on comm, nav, surveillance systems
  - Develop physics-based models and decision aids
- Challenges:
  - Sparse sensors
  - Assimilating Data
  - Validating Models
- Major Components:
  - Global ionospheric instrumentation network (SCINDA, DISS, IMS)
  - Model/Decision Aid Development
  - Comm/Nav Outage Forecasting System ACTD (launches Jun 05)
- Recent Products: TacSEND to Iraq, new SCINDA sites for AFSPC, ionospheric models for C/NOFS ACTD

Ballistic Missile Technology

- Goal: eliminate plasma blackout problem on advanced reentry systems
  - Prompt, precision global strike
- Challenges:
  - Modeling/simulation of advanced systems to enable design
  - Recreating realistic conditions in lab
  - Integrating diverse disciplines (VA, SN, VS, ICBM SPO/ops)
- Major Components:
  - Laboratory experiments of reacting chemistry in plasmas
  - Modeling and simulation to specify systems impacts/design
  - Hardware-in-the-loop testing
- Recent Products: LBSD AoA, CAV plasma technology, classified "stuff"

Nanotechnologies (6.1)

- Goal: leverage nanotech developments to produce generation-after-next nanosat technology for space environment sensors and hazard mitigation
- Challenges:
  - Understanding fundamental physics of interaction between space particles and sensors
  - Applying that physics
- Major Components:
  - Developing sensors 10-100X smaller than today's
  - Developing nanopropulsion for nanosats or stationkeeping (nano-electrojets)

Spectral Surveillance Technologies
(Hyperspectral Imaging)

- Goal: provide actionable information on hard to see targets
  - Sub-pixel
  - Under trees
  - Inside camouflage
- Challenges:
  - Determining detection thresholds based on target and background variability
  - Autonomous spectral data processing/exploitation (including compensating for atmospheric effects such as absorption and scattering)
- Major Components:
  - Building/validating target library (Ft AP Hill)
  - Developing atmospheric compensation algorithms
  - Developing/flying Joint Warfighting Space-Demo 2 Payload (aka JWS-D2)
- Recent Products: FLAASH-2 atmospheric correction codes, signature databases for intel community

Signature Exploitation
(Hypertemporal Imaging)

- Goal: develop technology to detect and identify missile ignition
  - Improve boost phase intercept
  - Increase warning time through thick clouds
  - Extreme background clutter rejection
- Challenges:
  - Fast processing in temporal domain
  - Developing system trades
  - Demonstrating against real missiles
- Major Components:
  - Hardware development to TRL 6
  - Software development
  - Field measurements (to include data campaigns vs real targets in daytime cloud cover)
- Recent Accomplishment: SAB recognized it as revolutionary surveillance technology
  - MDA's primary technology for Early Launch Detection

Background Clutter Mitigation

- Goal: enable sensor system engineers make the right trade choices for surveillance and missile defense systems
  - Focused on missile defense
- Challenges:
  - Lack of measurements of all backgrounds
  - Developing models for important sources of clutter
  - Nowcasting/forecasting
- Major Components:
  - Exploitation of satellite measurements
  - Physics-Based model development for designers
  - Nowcast/forecast tool development
- Recent Products: SAMM2 background models for MDA and contractors

Atmospheric Turbulence

- Goal: develop new technologies and techniques for mitigating effect of atmospheric turbulence on weapon systems
- Challenges:
  - Connecting measurements to models and systems effects
  - Maintaining measurement capability
  - Meeting warfighter demands
- Major Components
  - ABL ADA (for ABL SPO)
  - Stratospheric Clear Air Turbulence (6.1 for ACC)
  - Wx Impact Decision Aid Program (for ACC, ESC, Navy, Army)
  - Field Measurement Capability
- Recent Products: ABL ADA for MDA, IRTSS for ACC, PAC-3 Intercept Debris measurements

Nuclear Explosion Monitoring

- Goal: provide AF with technology to meet its national responsibility of monitoring global nuclear testing
  - AFTAC is primary customer
  - Recently took it over from DTRA
- Challenges:
  - Evasive testing
  - Regional vs strategic focus
  - Smaller weapons
- Major Components:
  - Seismic research
  - Seismic calibration
  - Ground truth via space-based sensing
  - Develop InSAR from space
  - Hydroacoustic development

Cold Atom Optics
(mostly 6.1)

- Goal: to enable ultra-sensitive inertial force sensing (e.g., precise gravity measurements)
  - Jam-proof, GPS-free navigation
  - Precise line-of-sight stabilization
- Challenges:
  - Miniaturizing interferometers by using Bose Einstein Condensate on a chip
  - Moving technology out of the lab and into robust, mobile sensors
- Major Components:
  - 6.1 lab task on BEC and cold atoms
  - Experimental hardware development (customer-funded)
  - Precision inertial navigation systems (DARPA)
- Recent Products: truck-mounted cold atom interferometer for UGF detection for DoJ and DHS

VSB Programs
Warfighter Support

- Operation Iraqi Freedom
  - Infrared Target-Scene Simulation Software (IRTSS)
  - Tactical Space Environment Network Display (TacSEND)
- Space
  - Operational Space Environment Network Display (OpSEND)
  - Compact Environmental Anomaly Sensor (CEASE)
  - Land-Based Strategic Deterrent (LBSD) Analysis of Alternatives (AoA)
  - Digital Ionospheric Sounding System (DISS), Ionospheric Measurement System (IMS), Scintillation Network Decision Aid (SCINDA)
  - Defense Meteorological Satellite Program (DMSP) sensors
- Surveillance
  - Airborne Laser Atmospheric Decision Aid (ABL ADA)
  - Large Aircraft Survivability Initiative

Infrared Target-scene Simulation Software (IRTSS)

- Combines:
  - Mission parameters
  - Sensor characteristics
  - Target models
  - Weather prediction
  - Overhead satellite imagery
- Generates integrated prediction of target area view through aircraft sensor
  - Mission planning tool
  - Still and motion picture views
- Optimizes attack effectiveness while minimizing threat exposure
  - Heightens Situation Awareness
  - Improves target ID
- Shipped directly to theater within 30 days of CENTCOM request
  - Superb feedback
  - Supported 70% of F-117 combat sorties
- Development continues--ESC picking it up

Tactical Space Environment Network Display (TacSEND)

- TacSEND is an offshoot of the Operational Space Environment Network Display (OpSEND)
  - Designed for use in the field to provide local ionospheric impacts – integrated with Ionospheric Measurement System (IMS)
- TacSEND incorporates state-of-the-art sensors, models, and display tools to generate Space Weather impact maps
- Developed in series of Special Ops demos in Korea and Philippines (1999-2002)
- Army Research Lab funds TacSEND for Army Integrated Meteorological System (IMETS)
- Fielded to 3rd Infantry Division (15th ASOS) in Iraq in Mar 2003
  - Diagnosed six 3rd ID communications problems
  - Redeployed to 3rd ID Dec 04

Technology Transition

AFRL

Contractor

DMSP sensors
AFGeospace
NASCAP-2K

IRTSS
Atmos Drag Models
SCINDA

Product Center

ABL ADA
OpSEND
PRISM

Space Battlelab

Space Environment
Network Display Demo
JWSD-2 HSI?

User

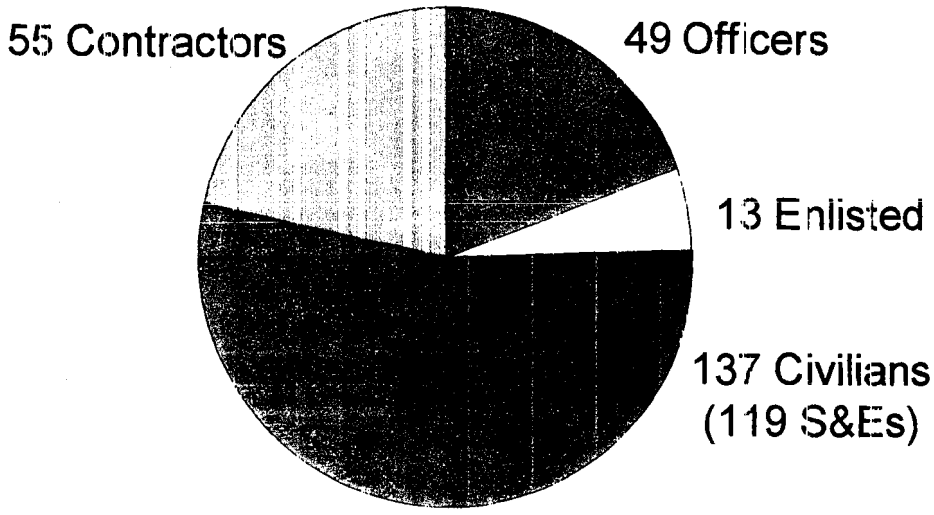
Investment → Return on Investment

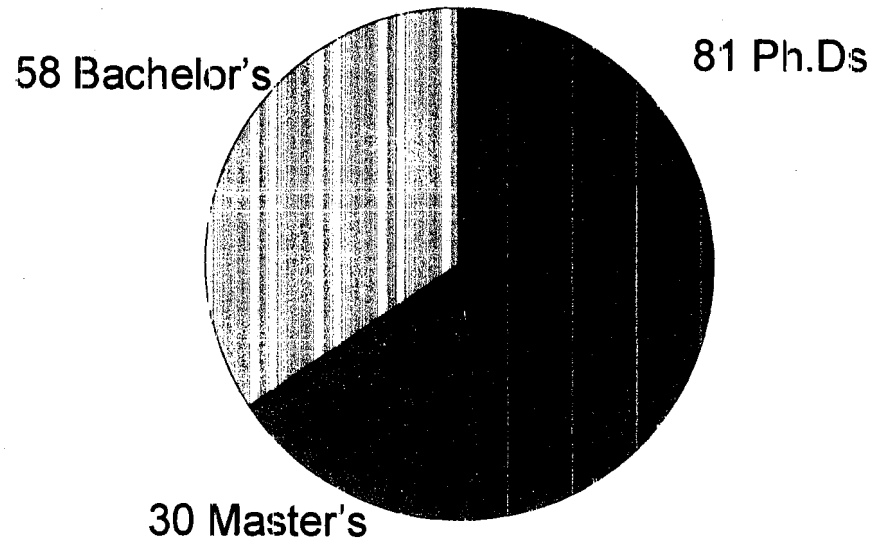
VSB Programs
The Future

- Shift in Focus
  - Now: Forecast and/or mitigate phenomena or conditions
  - Future: Exploit and/or generate systems effects
- Future Technical Areas
  - Space-based C3ISR (including near-space ops)
  - Responsive Space
  - Space Supremacy
    - Space Situation Awareness
    - Defensive Counterspace
    - Offensive Counterspace

From "Cope & Avoid" to "Anticipate & Exploit"
- LGen Leaf, AFSPC/CV

VSB and its Mission
People



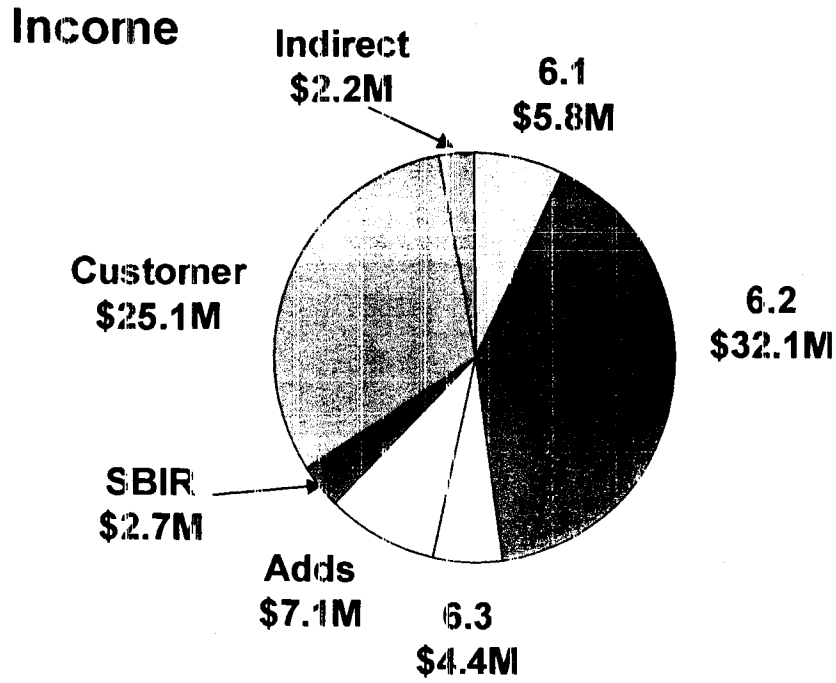


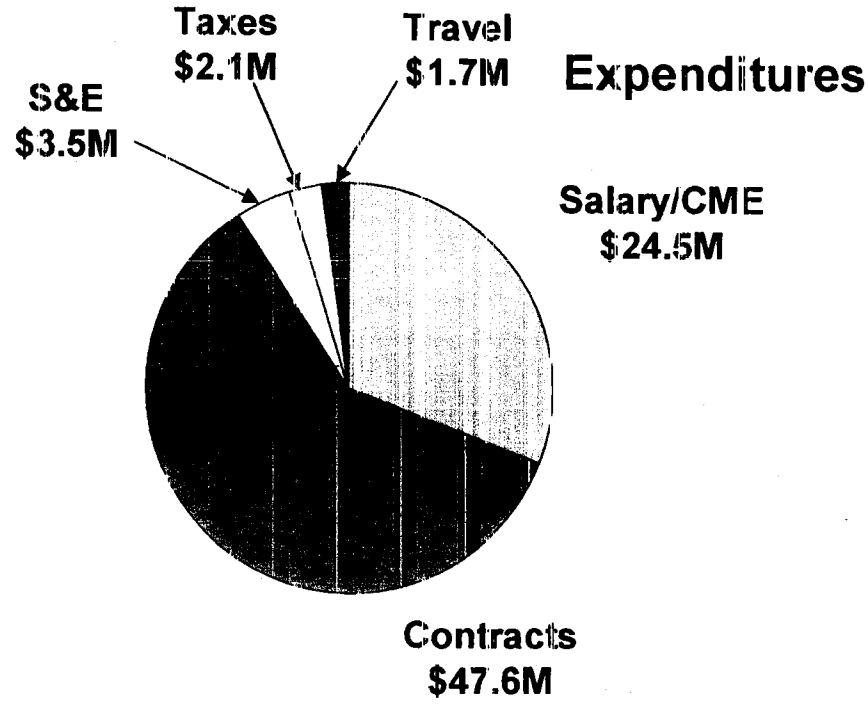
Total VSB Population = 254

Gov't S&Es = 169

Educated population with embedded contractor workforce

VSB Finances
(FY04)





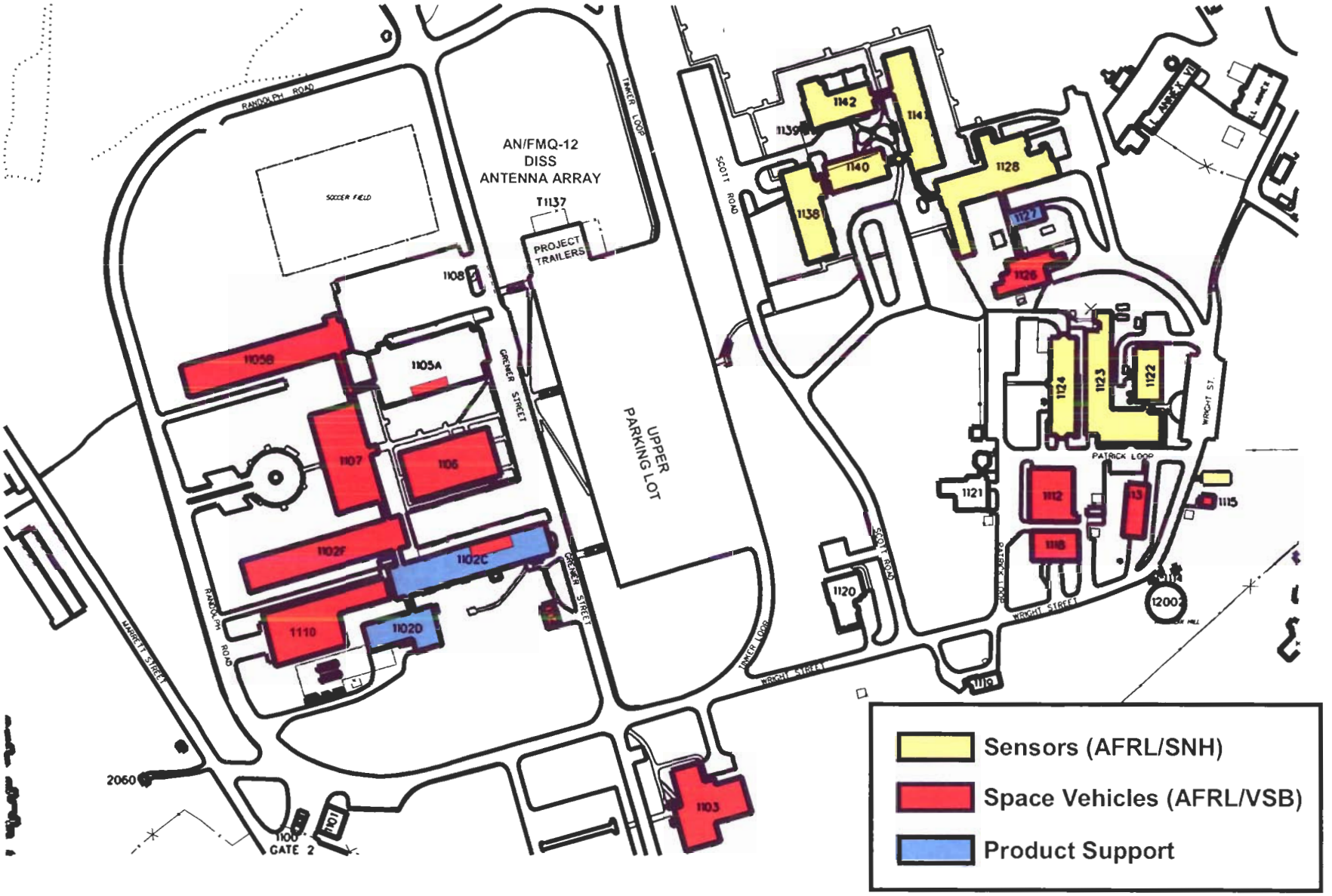
VSB annual budget is ~$80M

- $10M 6.2 for HAARP construction in AK--MIPR to NRL
- Contracts include HAARP construction contract and inhouse support

Summary

- VSB is a full-spectrum R&D organization
  - 6.1 through direct warfighter support
  - Strong science component
  - Global reach, including out into space
- Working on AF and national problems from "sun to mud"
  - Major customer is AFSPC
  - Bring in substantial outside funding
- Shifting from
  - Understanding/forecasting/mitigating environmental effects on weapon systems to...
  - Exploiting for space supremacy and other important missions

FY05 Map of AFRL Facilities



Sensors (AFRL/SNH)

Space Vehicles (AFRL/VSB)

Product Support

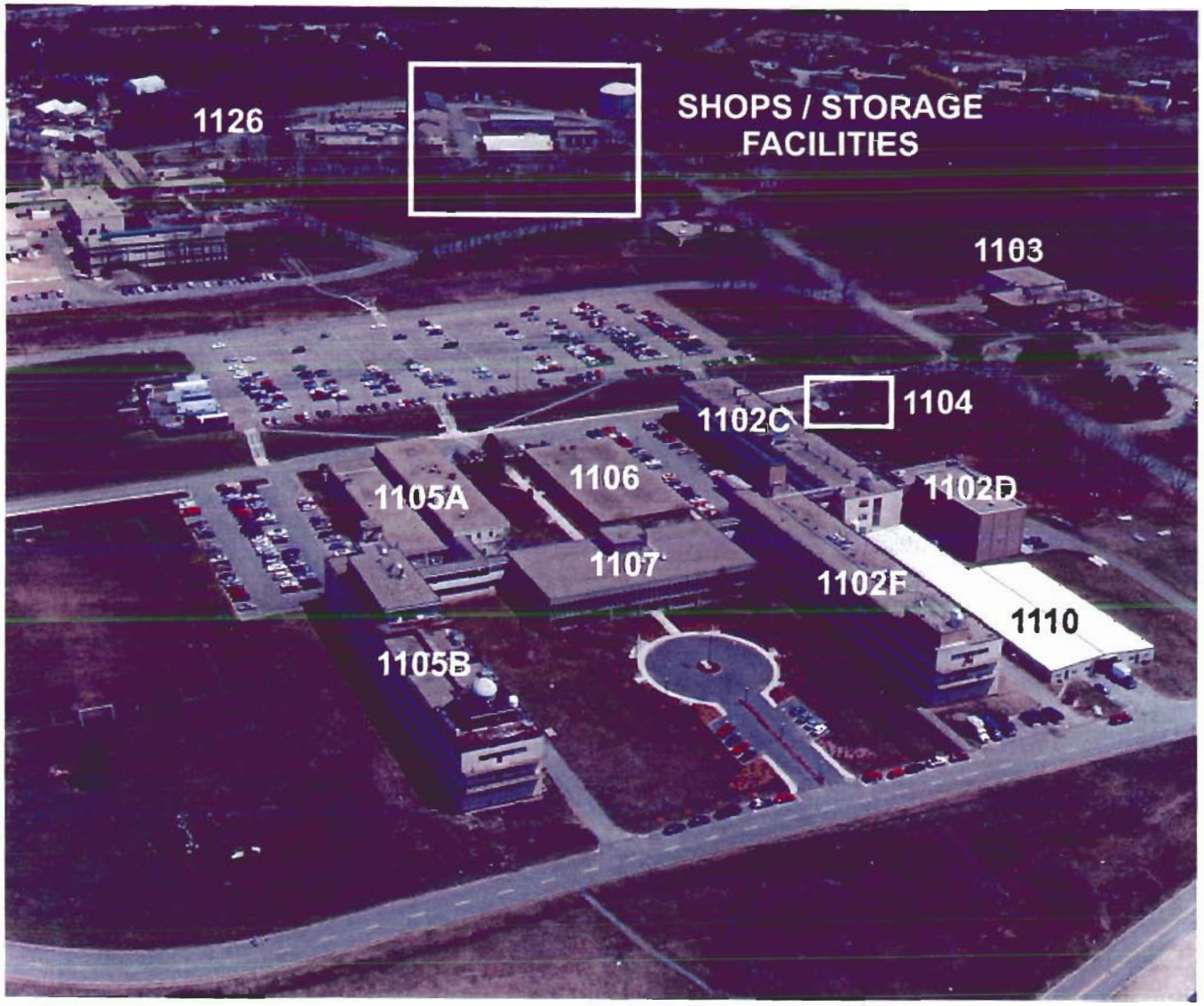
AIR FORCE RESEARCH LABORATORY
HANSCOM, AFB

FACILITY BASELINE SQUARE FOOTAGE SUMMARY

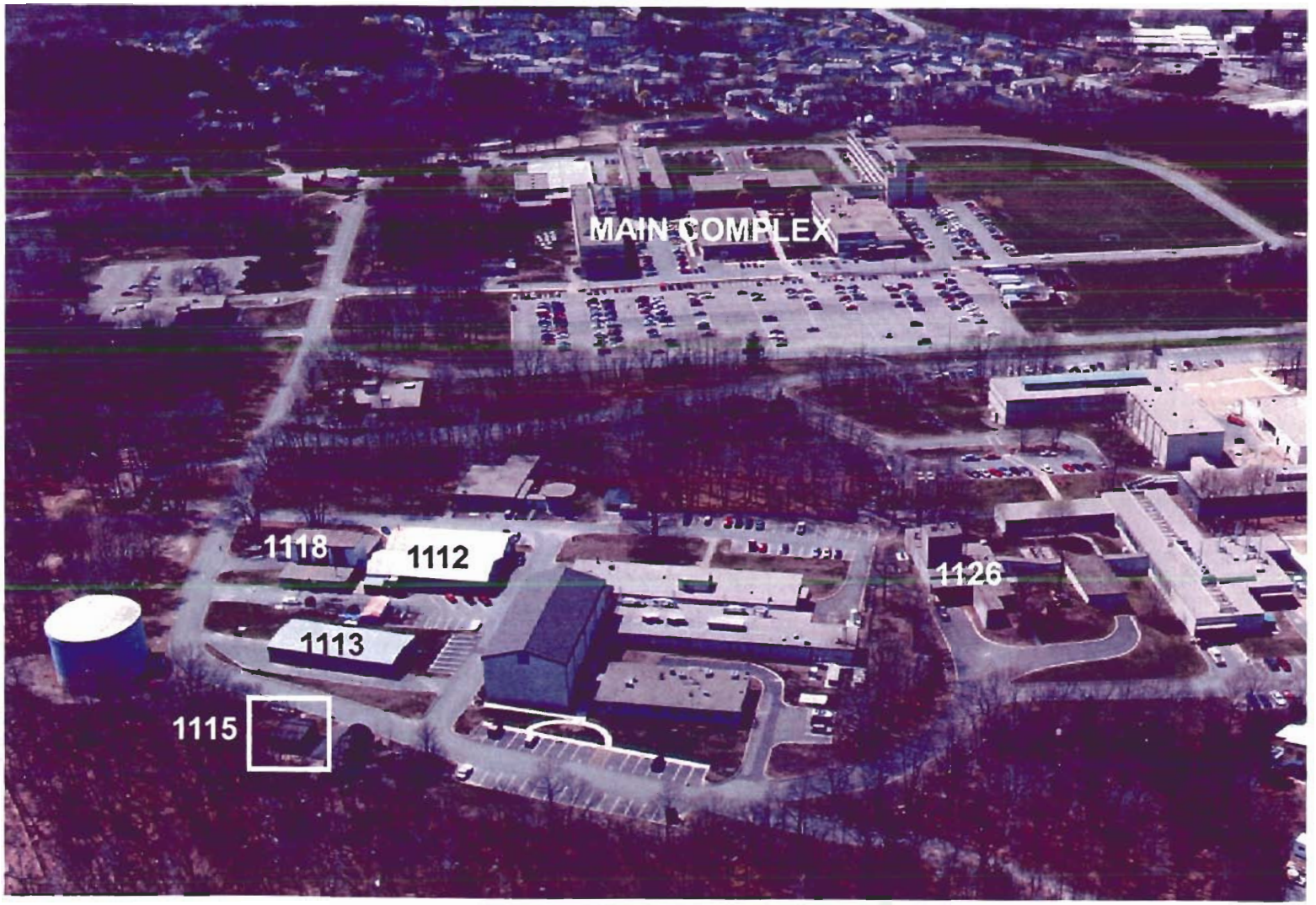
	Bldg	VS Gross Area (sf)	Remarks (HAFB Real Property Unless Noted)	Not Suitable Office Space Rationale
1	1102C	7,312	Actual Measurements	
2	1102F	74,930		
3	1103	28,988	Actual Measurements	
4	1104	940	Actual Measurements	Hazmat Storage
5	1105A	2,705	Actual Measurements	
6	1105B	77,071		
7	1106	16,366		HAFB Conference Center
8	1107	52,313		
9	1110	20,000		
10	1112	8,264		Shops
11	1113	4,035		Research Equipment Storage
12	1115	496		Outside Grounds Shop
13	1118	4,964		Shops
14	1126	5,670		
	Total Area (sf)	304,054		

	Bldg	SN Gross Area (sf)
1	1,122	5,025
2	1123	16,591
3	1124	8,588
4	1125	200
5	1128	18,422
6	1138	20,982
7	1140	12,636
8	1141	12,066
9	1142	10,745
	Total Area (sf)	105,255

AIR FORCE RESEARCH LABORATORY
SPACE VEHICLES DIRECTORATE
HANSCOM, AFB



AIR FORCE RESEARCH LABORATORY
SPACE VEHICLES DIRECTORATE
HANSCOM, AFB



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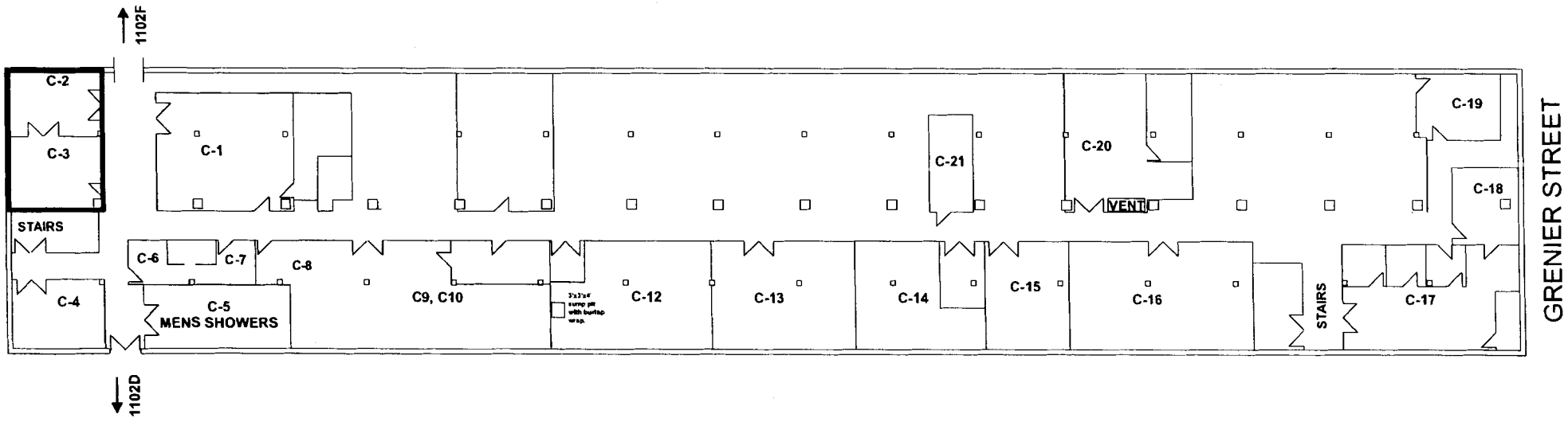
MAY 2001

SCIENCE LABORATORY
BUILDING 1102C

GPS MEASUREMENTS TECHNOLOGY LAB



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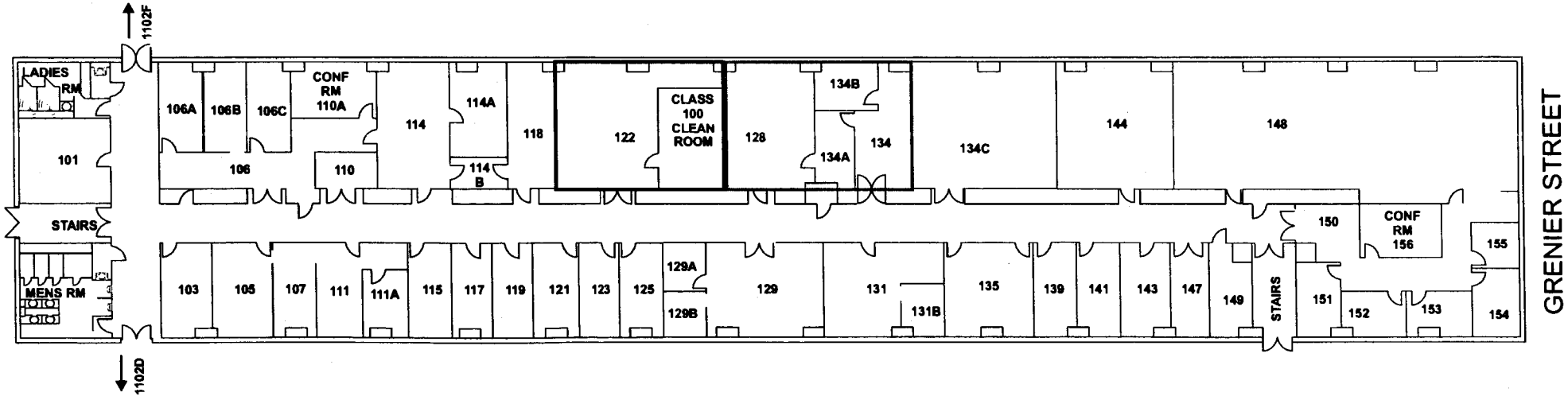
SCIENCE LABORATORY
BUILDING 1102C

MUMBO ENVIRONMENTAL/CALIBRATION LAB

JUMBO HIGH VACUUM/TESTING LAB



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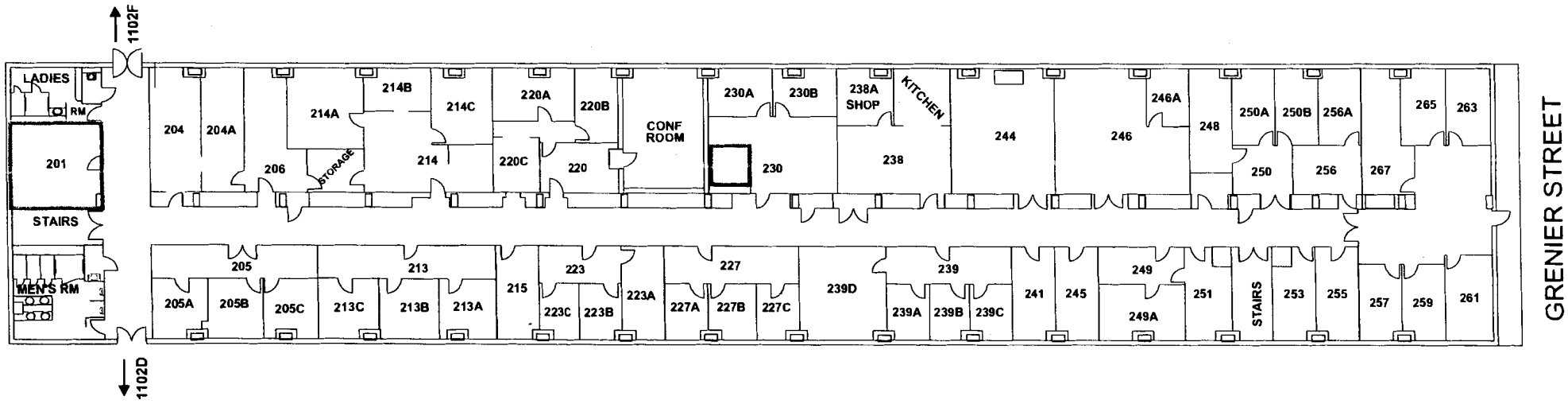
SCIENCE LABORATORY
BUILDING 1102C

NFFE UNION OFFICE

COMPUTER HUB



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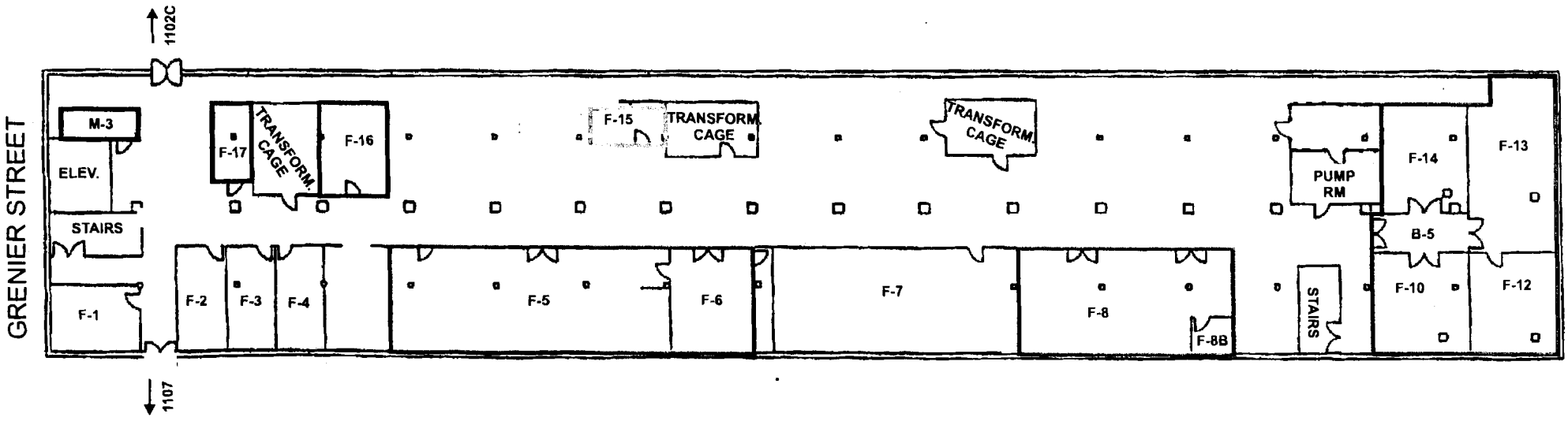
SCIENCE LABORATORY
BUILDING 1102F

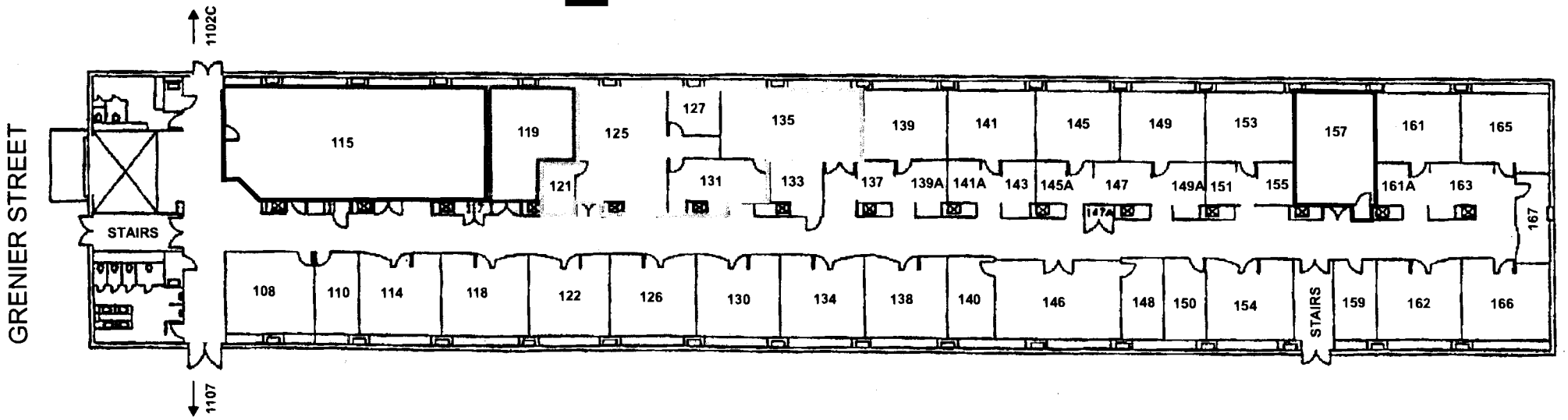
- GAS KENETICS LAB
- REMPI LAB
- UV CALIBRATION LAB
- MASS SPECTROMETER LAB PUMP ROOM
- CHEMISTRY LAB PUMP ROOM / CHEMICAL STORAGE
- SAFETY/ENVIRONMENTAL MATERIALS STORAGE



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1102F

- CHEMISTRY LAB
- DATA LAB
- MASS SPECTROMETER LAB
- COMPUTER DATA LAB



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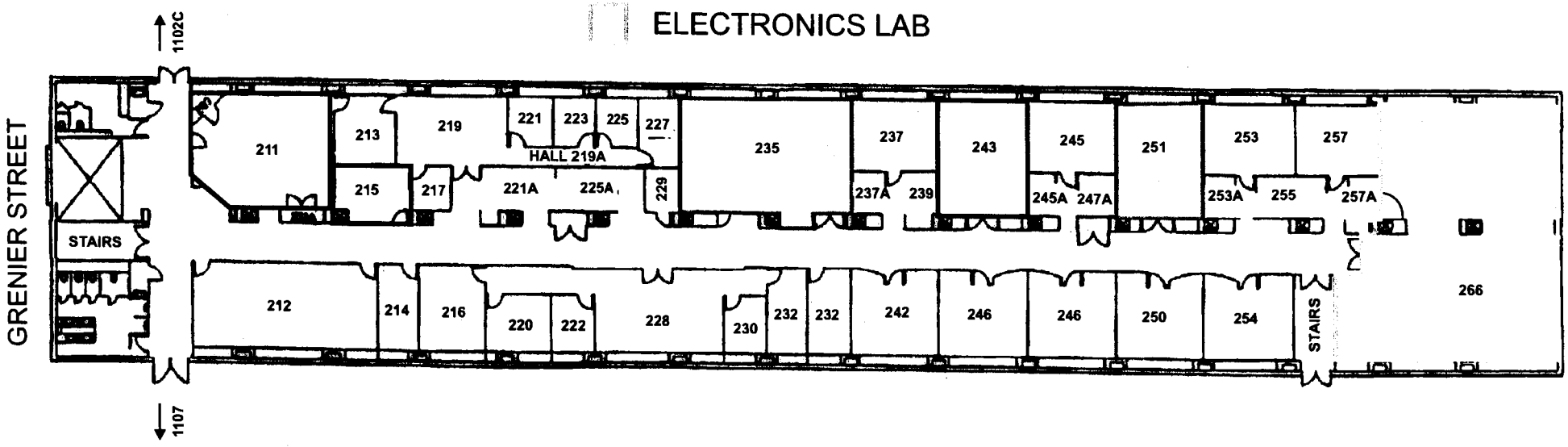
SCIENCE LABORATORY
BUILDING 1102F

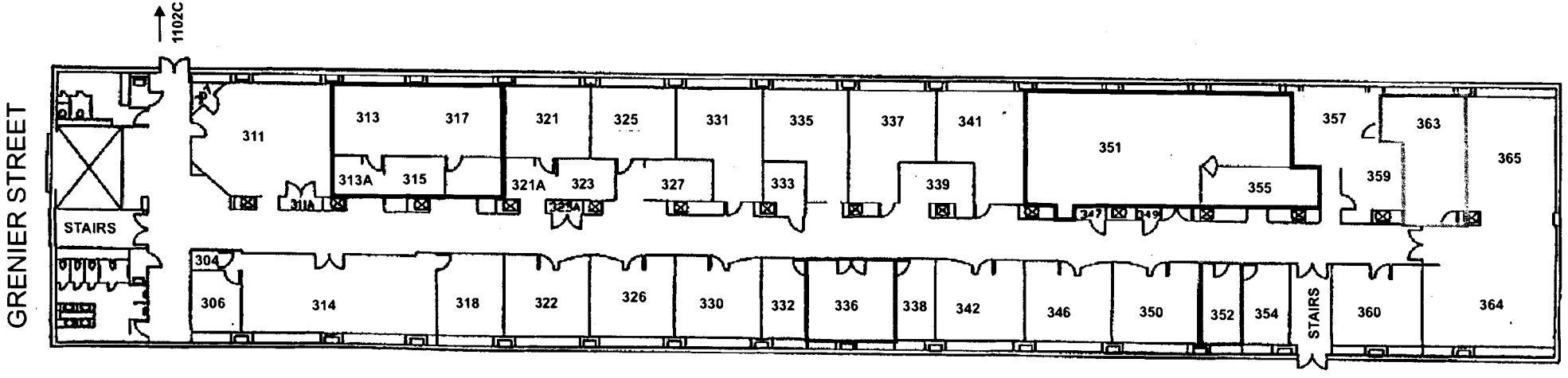
- ☐ DISPLAY CENTER
- ☐ APPLICATIONS LAB
- ☐ ANALYSIS LAB
- ☐ OPTICS LAB
- ☐ COMPUTER LAB
- ☐ ELECTRONICS LAB



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1102F

- ☐ GRAPHICS LABORATORY
- ☐ COMPUTER ROOM
- ☐ SPACE CHEMISTRY LABORATORY
- VACUUM BELLJAR/THERMAL LABORATORY
- ☐ ELECTRONIC PROTOTYPE/TESTING/STORAGE LABORATORY



RESEARCH FACILITIES AND ENGINEERING
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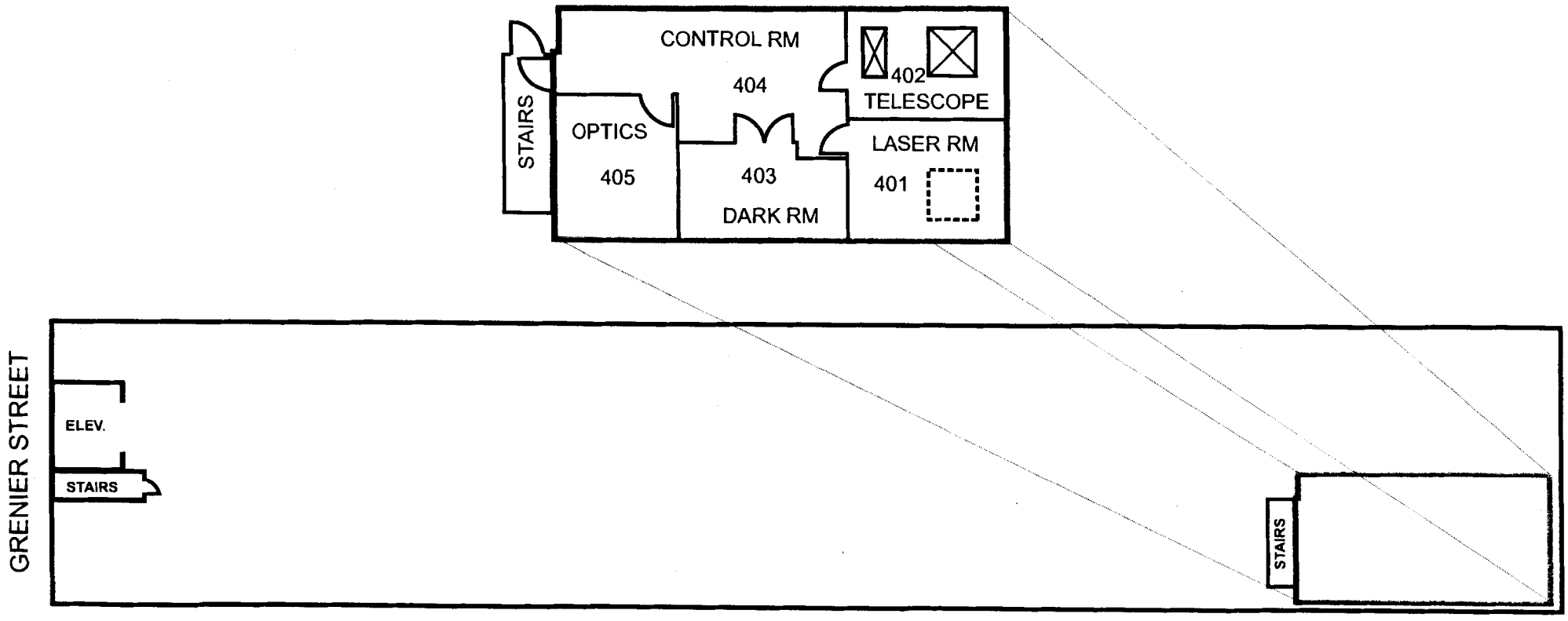
SCIENCE LABORATORY BUILDING 1102F

LIDAR PENTHOUSE



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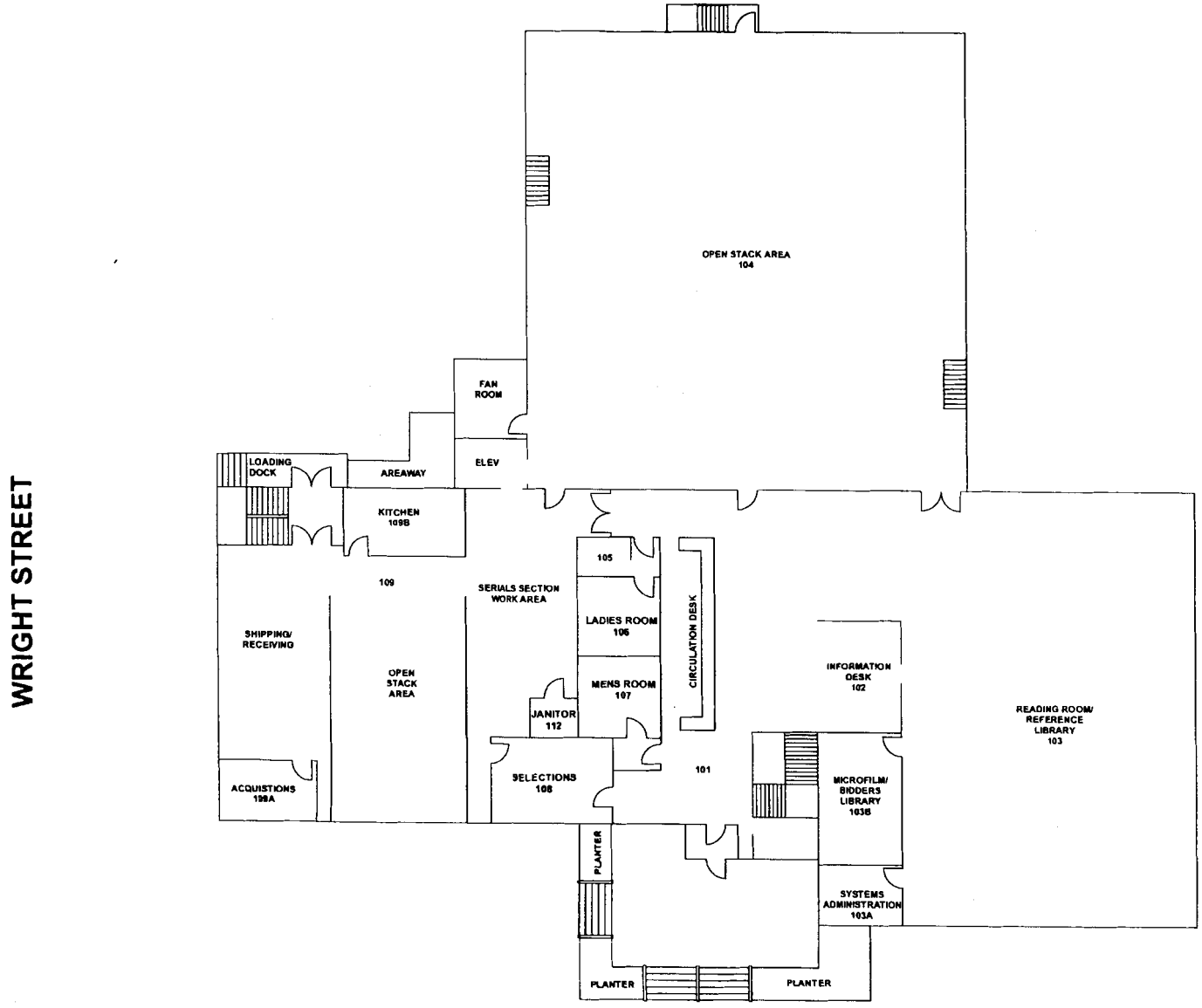
MAY 2001

RESEARCH LIBRARY
BUILDING 1103



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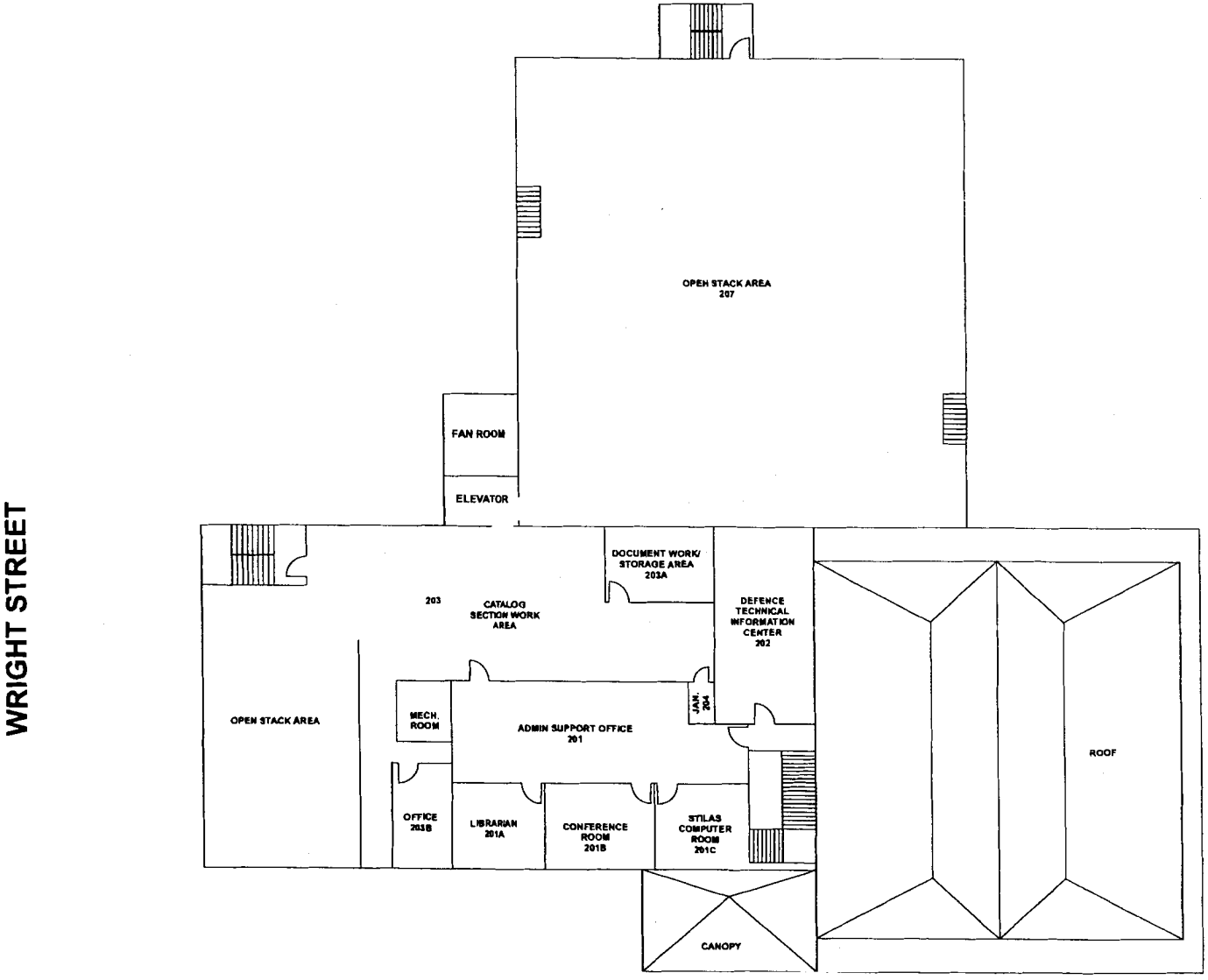
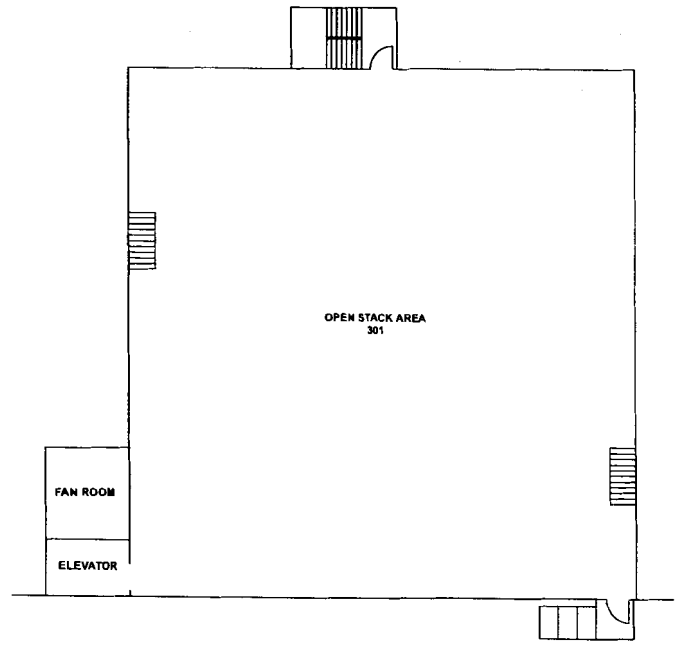
RESEARCH LIBRARY
BUILDING 1103



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

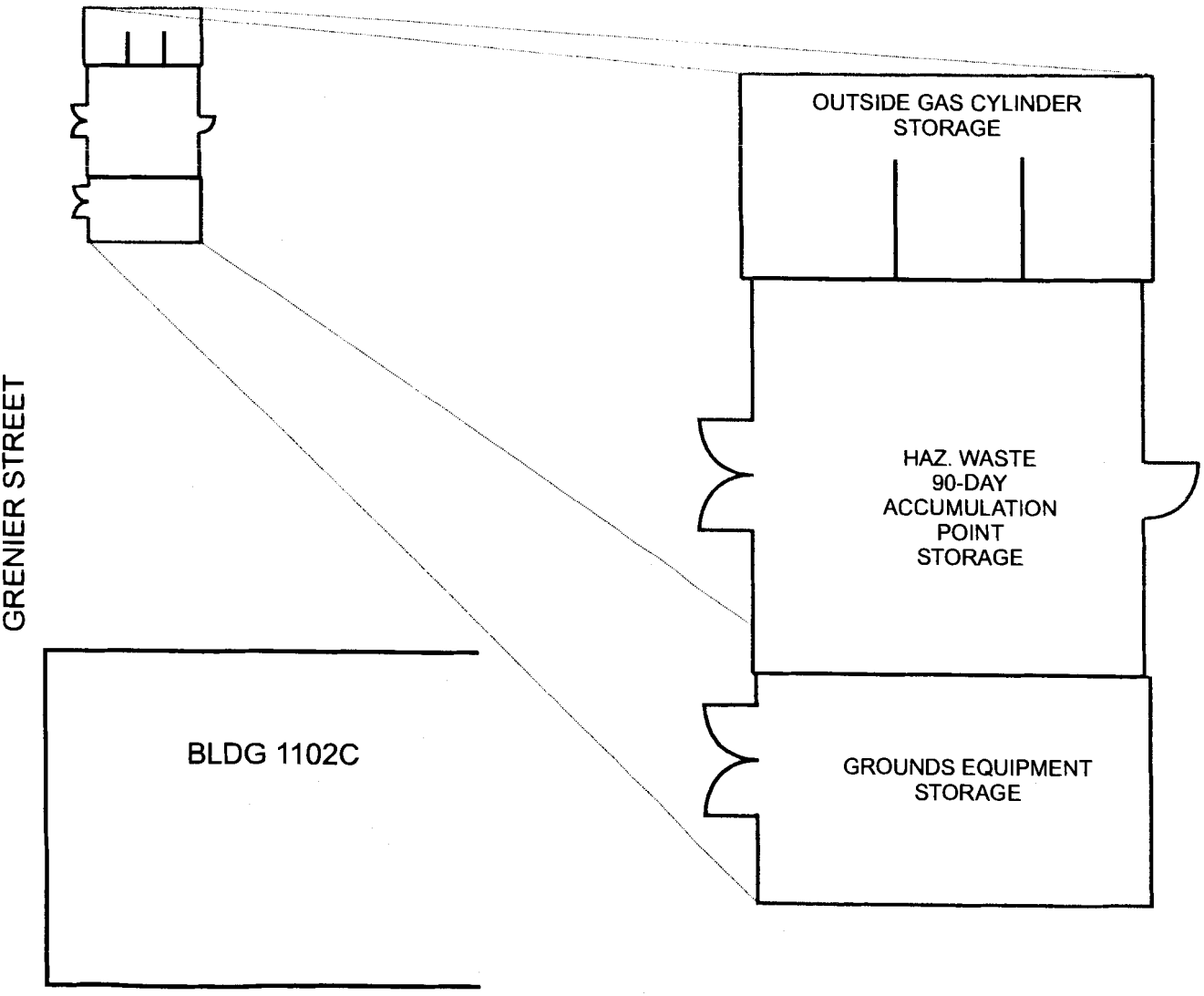
RESEARCH LIBRARY
BUILDING 1103



WRIGHT STREET

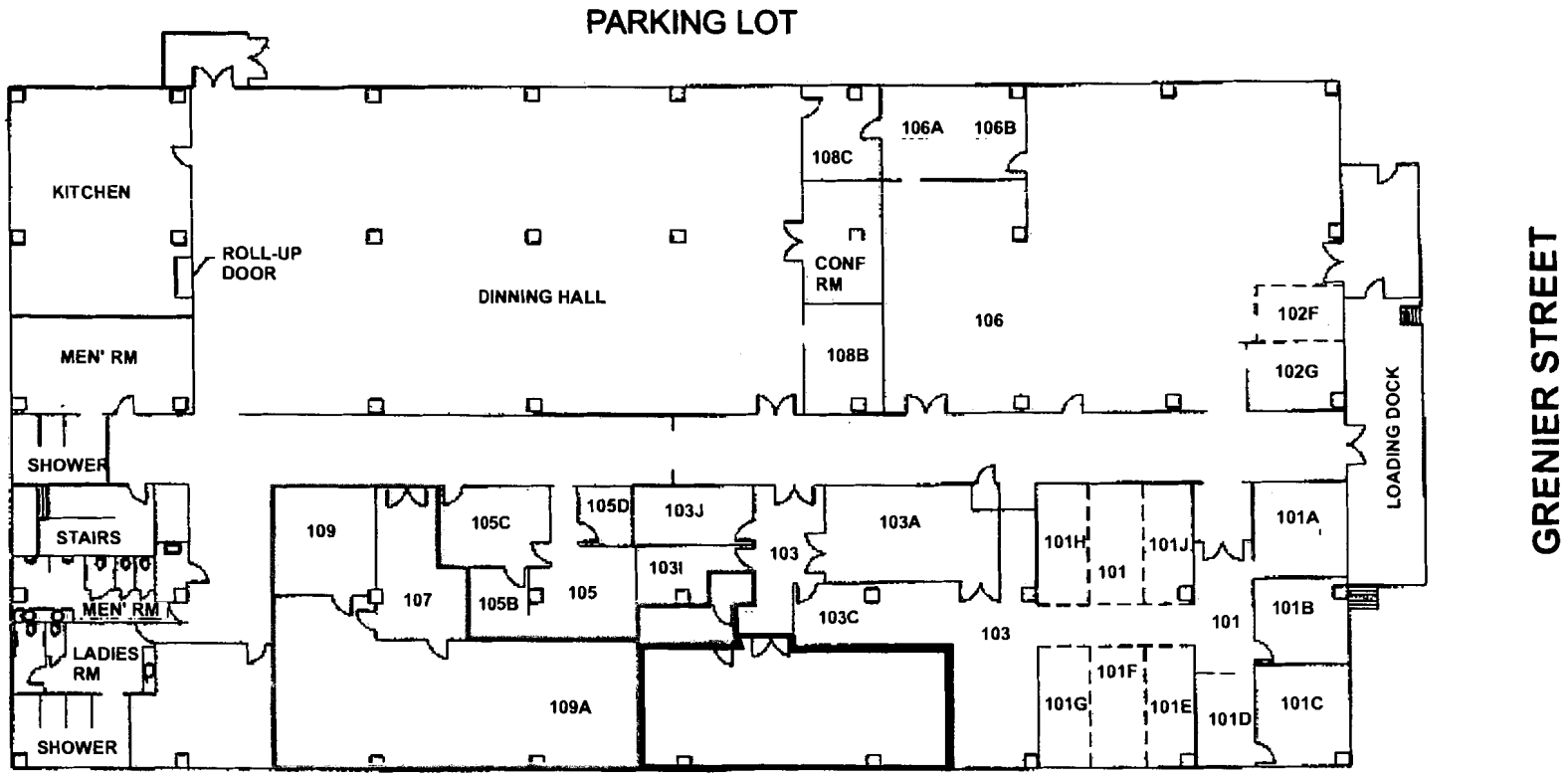
RESEARCH FACILITIES AND ENGINEERING
MAY 2001

HAZARDOUS WASTE/MATERIAL STORAGE BUILDING 1104



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1105A

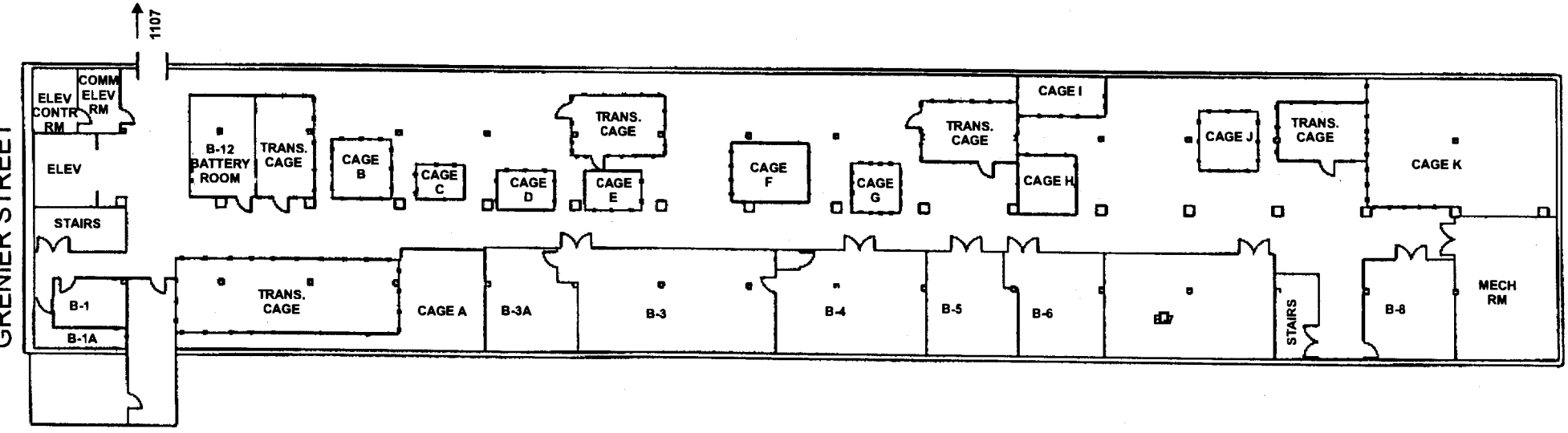


HIGH RESOLUTION SPECTROSCOPY (HIRES) LAB

ELECTRO-OPTICAL MEASUREMENT LAB

RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1105B



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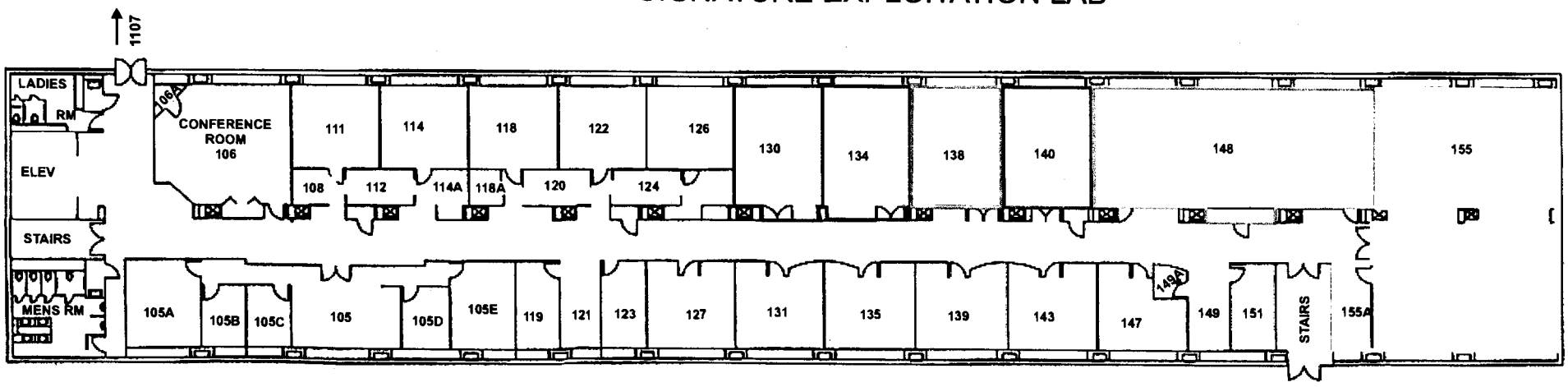
SCIENCE LABORATORY BUILDING 1105B

- ☐ DATA ANALYSIS FACILITY
- ☐ LABCEDE PUMP ROOM
- ☐ SBIRS PDAC
- ☐ SECURE FACILITY
- SIGNATURE EXPLOITATION LAB



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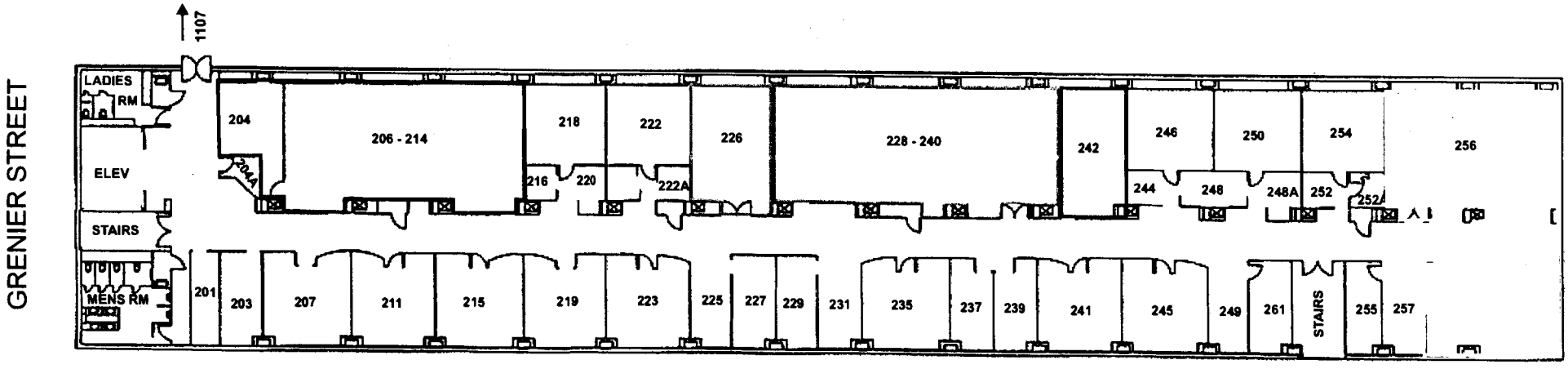
SCIENCE LABORATORY BUILDING 1105B

- ☐ COCHISE LAB
- ☐ IR LASER LAB
- ☐ LABCEDE LAB
- ☐ SPACE DOCK (SPACE OPERATIONS CENTER) LAB



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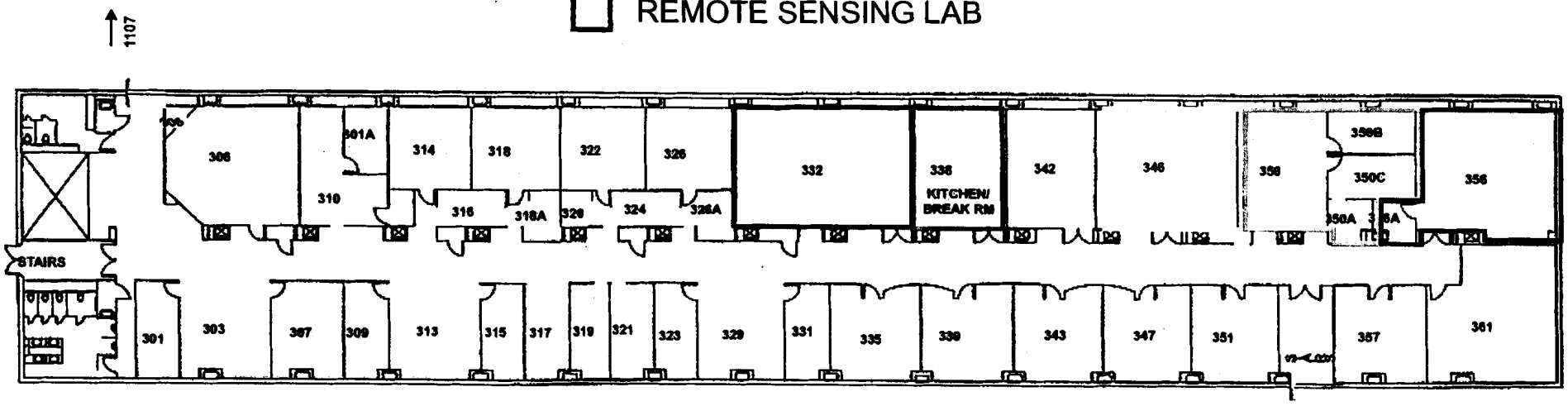
SCIENCE LABORATORY BUILDING 1105B

DYNAMICS LAB

- [ ] ELECTRONICS LAB
- [ ] AIMS COMPUTER/DATA PROCESSING LAB
- [ ] KITCHEN/BREAK ROOM
- [ ] REMOTE SENSING LAB



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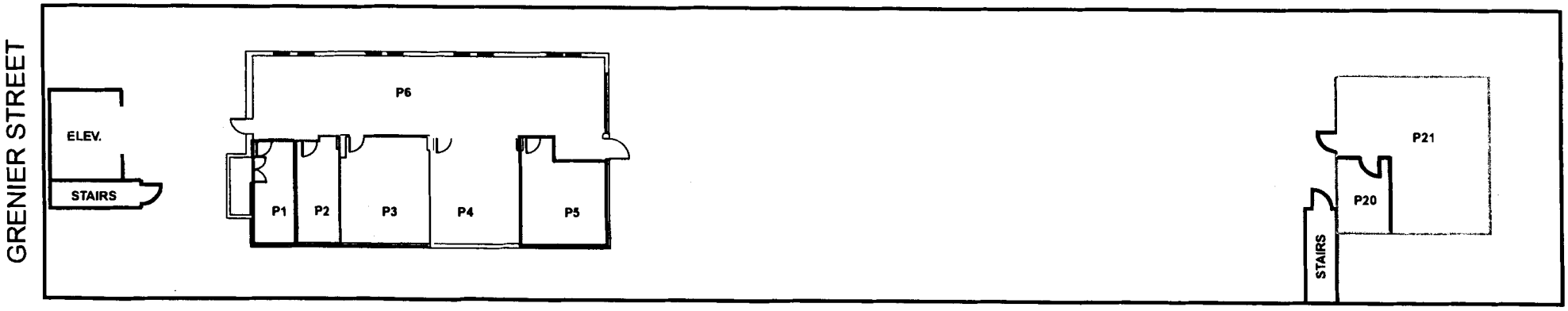
SCIENCE LABORATORY
BUILDING 1105B

- SCINTILLATION LAB
- ATMOSPHERIC PARTICLE LAB
- CLOUD ELECTRIFICATION LAB
- IONOSPHERIC HAZARDS LAB
- THERMOSONDE/RADIOSONDE LAB



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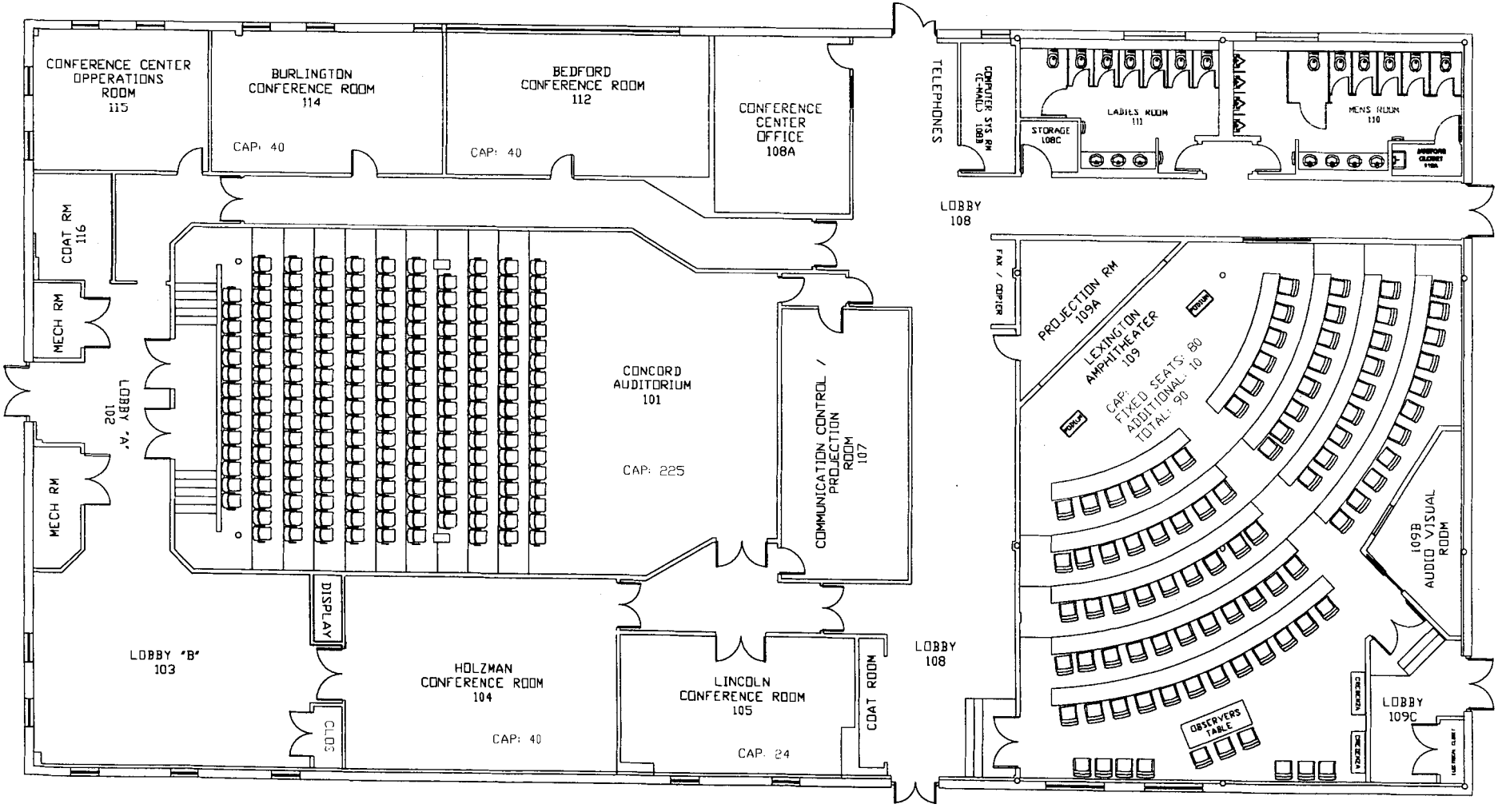
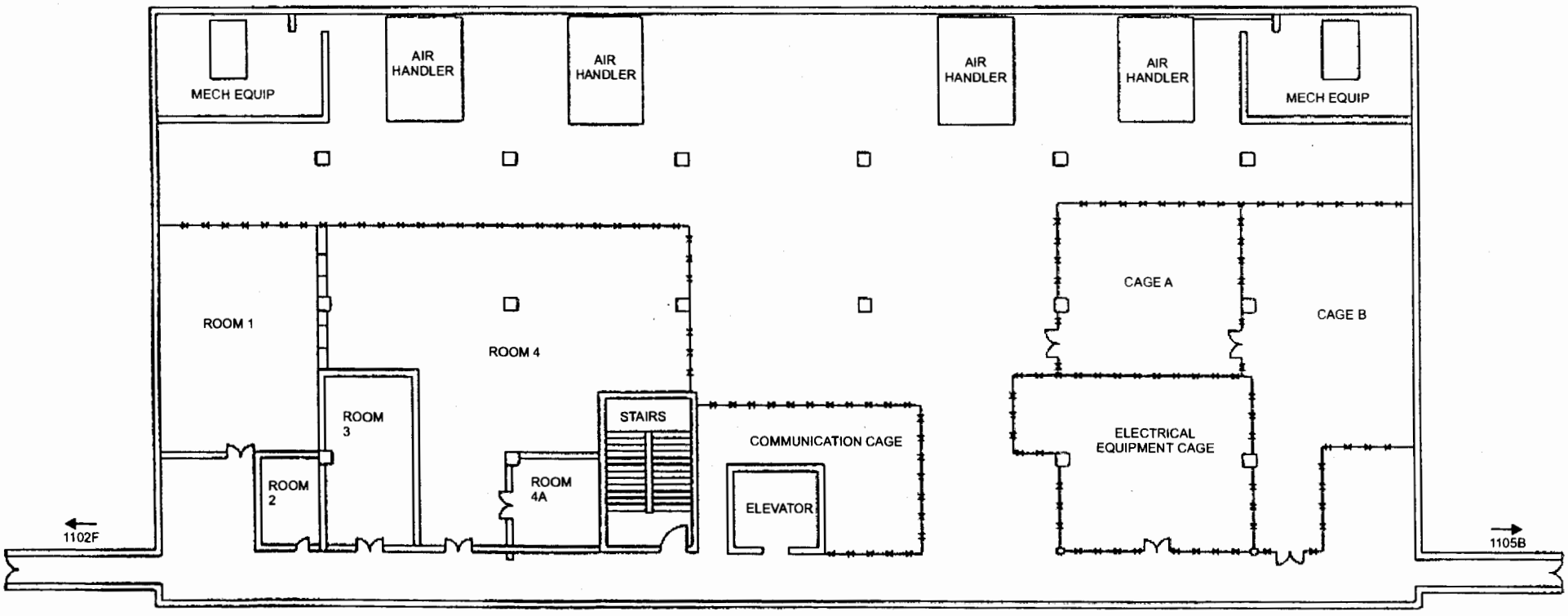
HANSCOM AIR FORCE BASE
CONFERENCE CENTER
BUILDING 1106



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1107



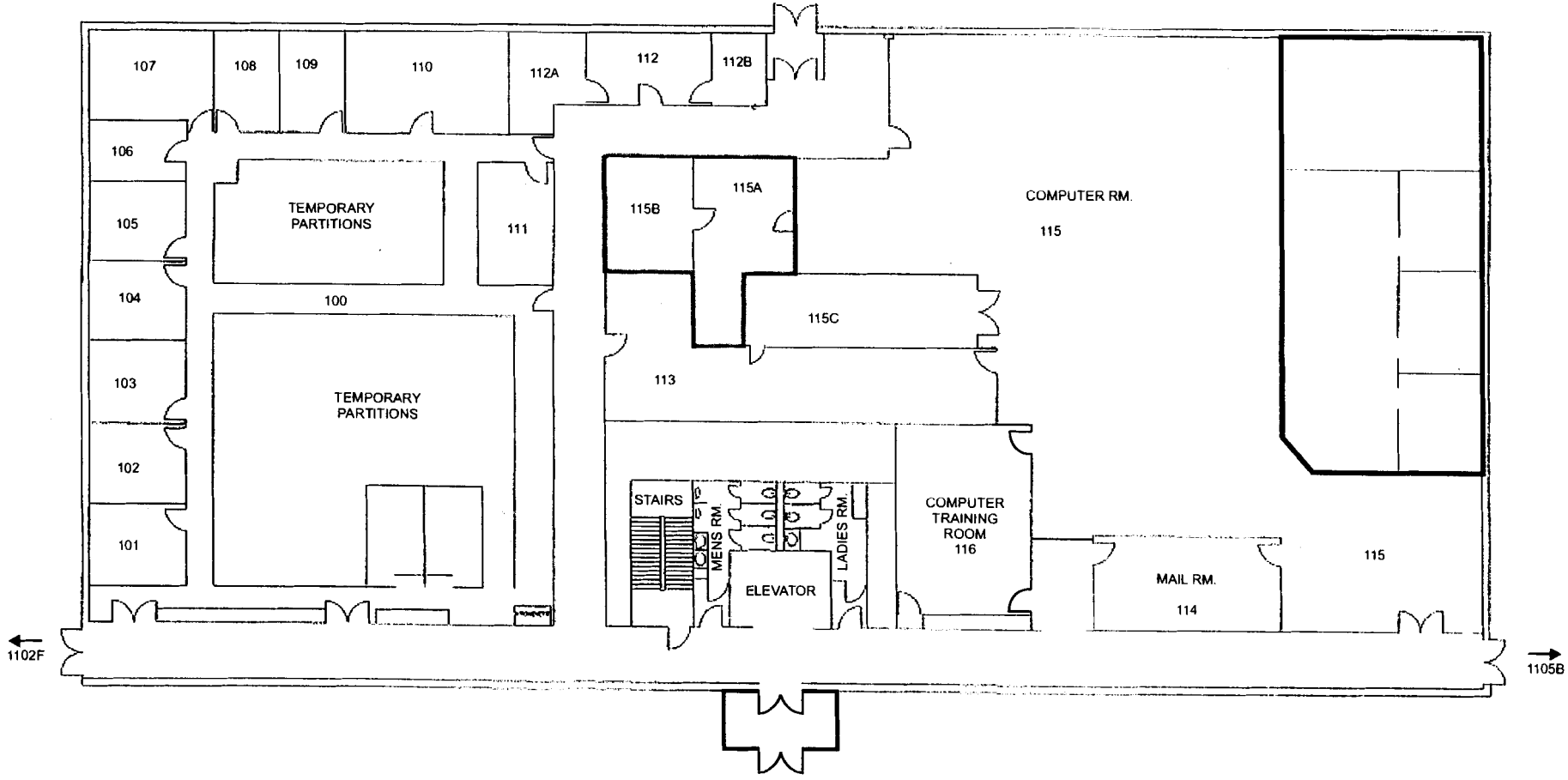
GRENIER STREET

RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY BUILDING 1107

DYNAMICS LAB

AFRL WARGAMING FACILITY HANSCOM AFB

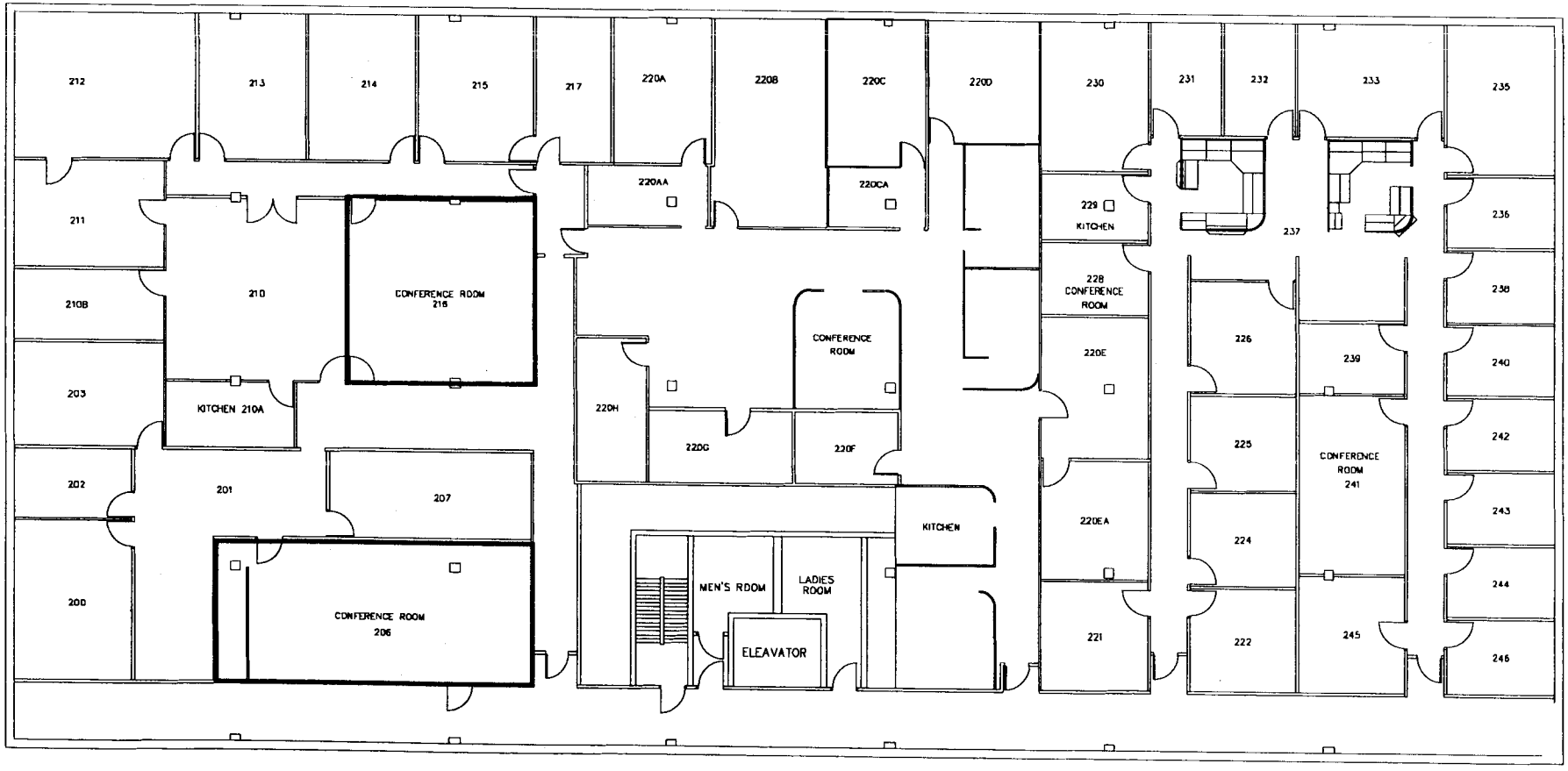


GRENIER STREET

RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY BUILDING 1107

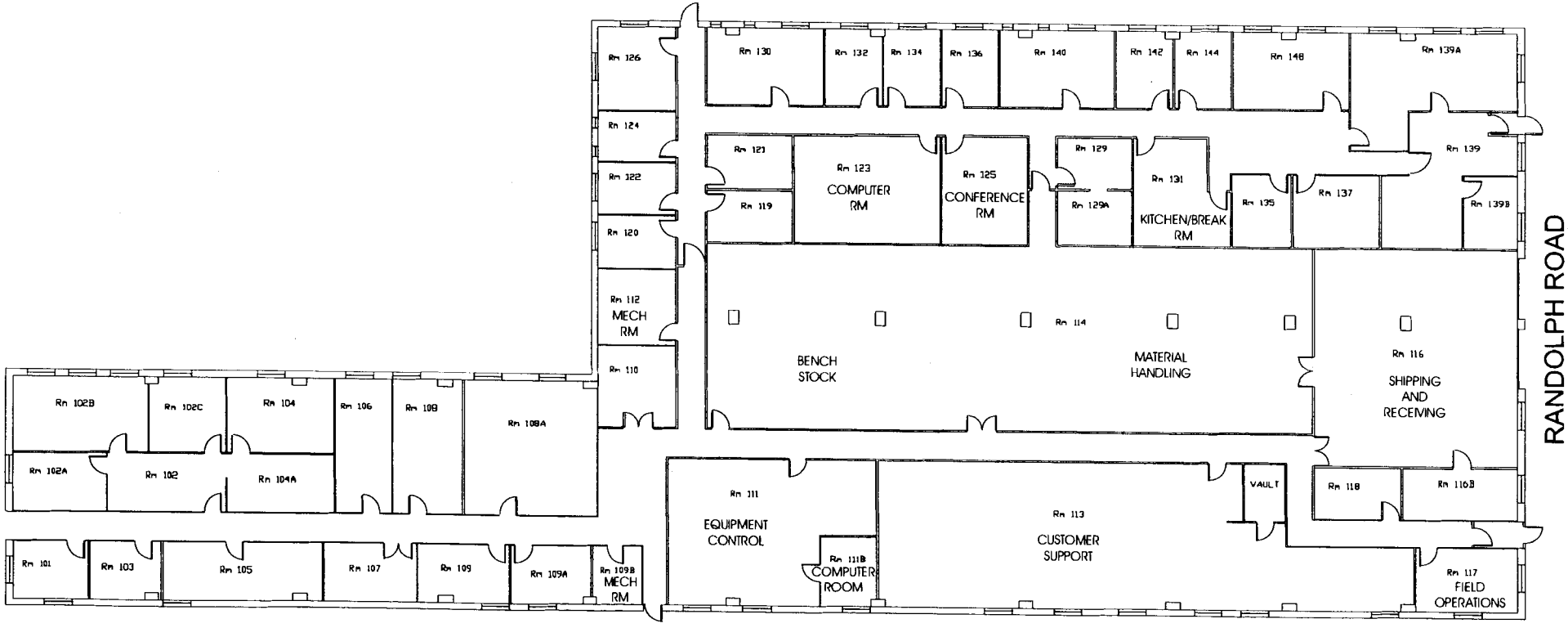
VIDEO TELECONFERENCING FACILITY



GRENIER STREET

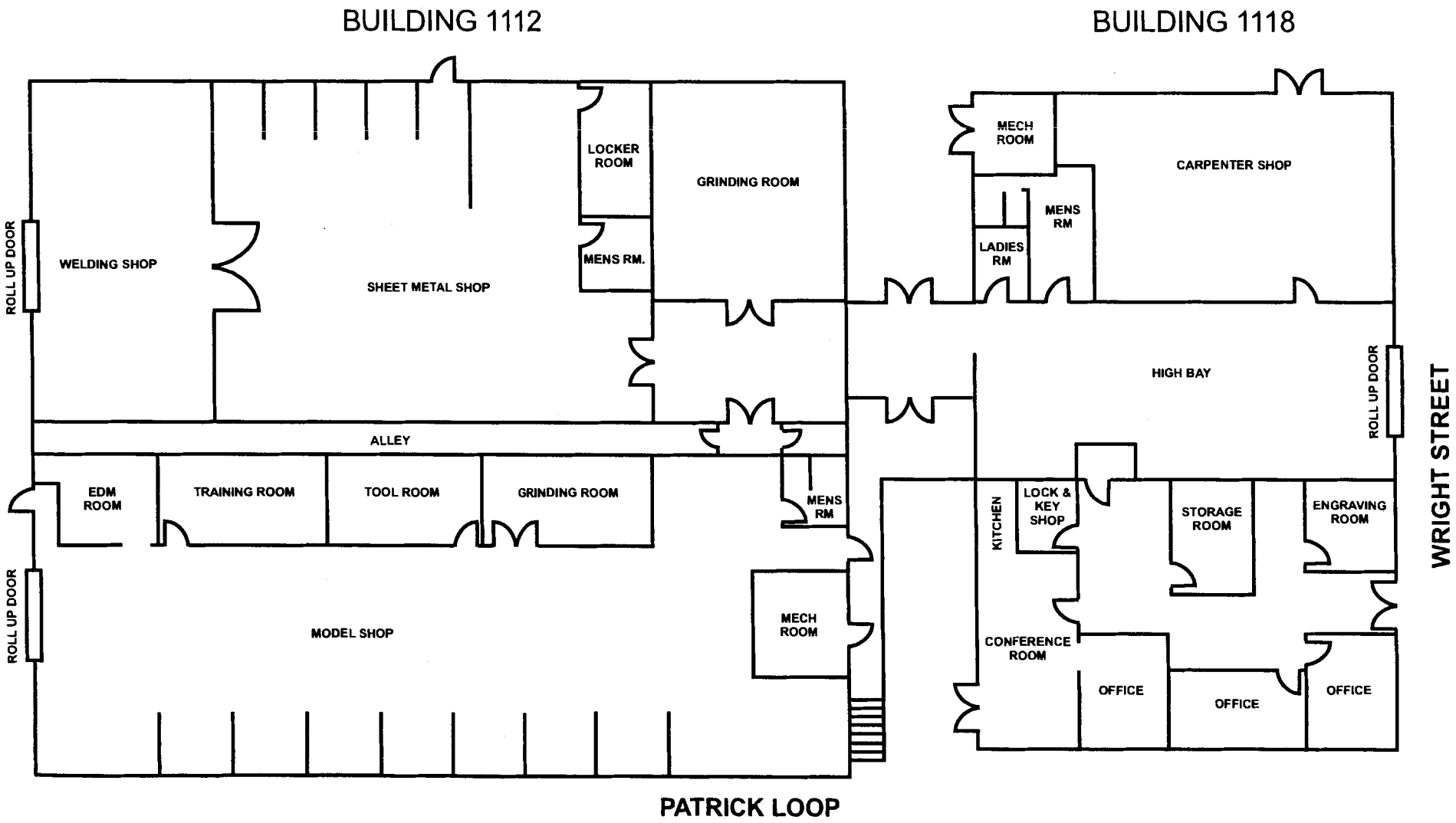
RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SCIENCE LABORATORY
BUILDING 1110



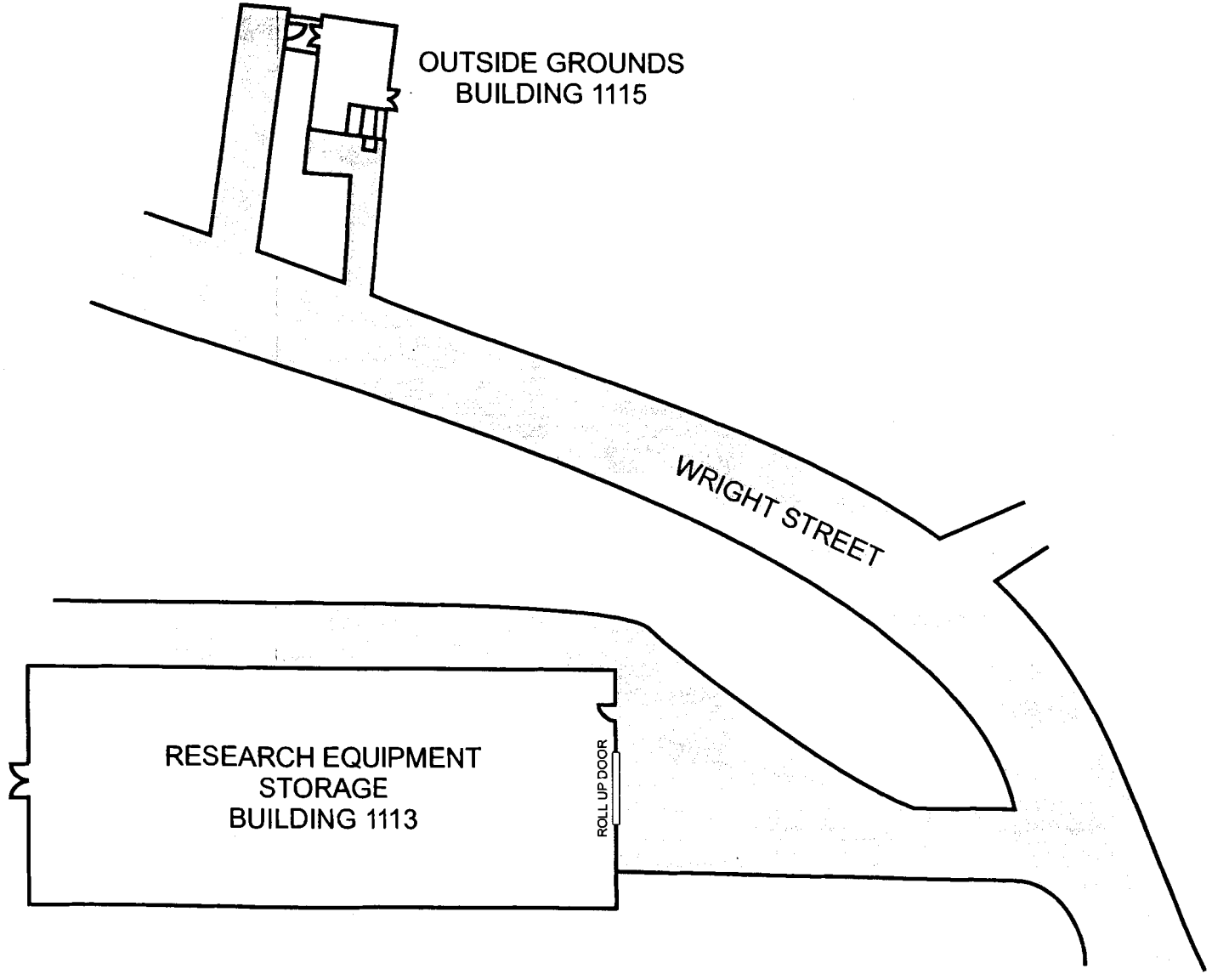
RESEARCH FACILITIES AND ENGINEERING
MAY 2001

SHOP COMPLEX



RESEARCH FACILITIES AND ENGINEERING
MAY 2001

OUTSIDE GROUNDS/STORAGE FACILITIES



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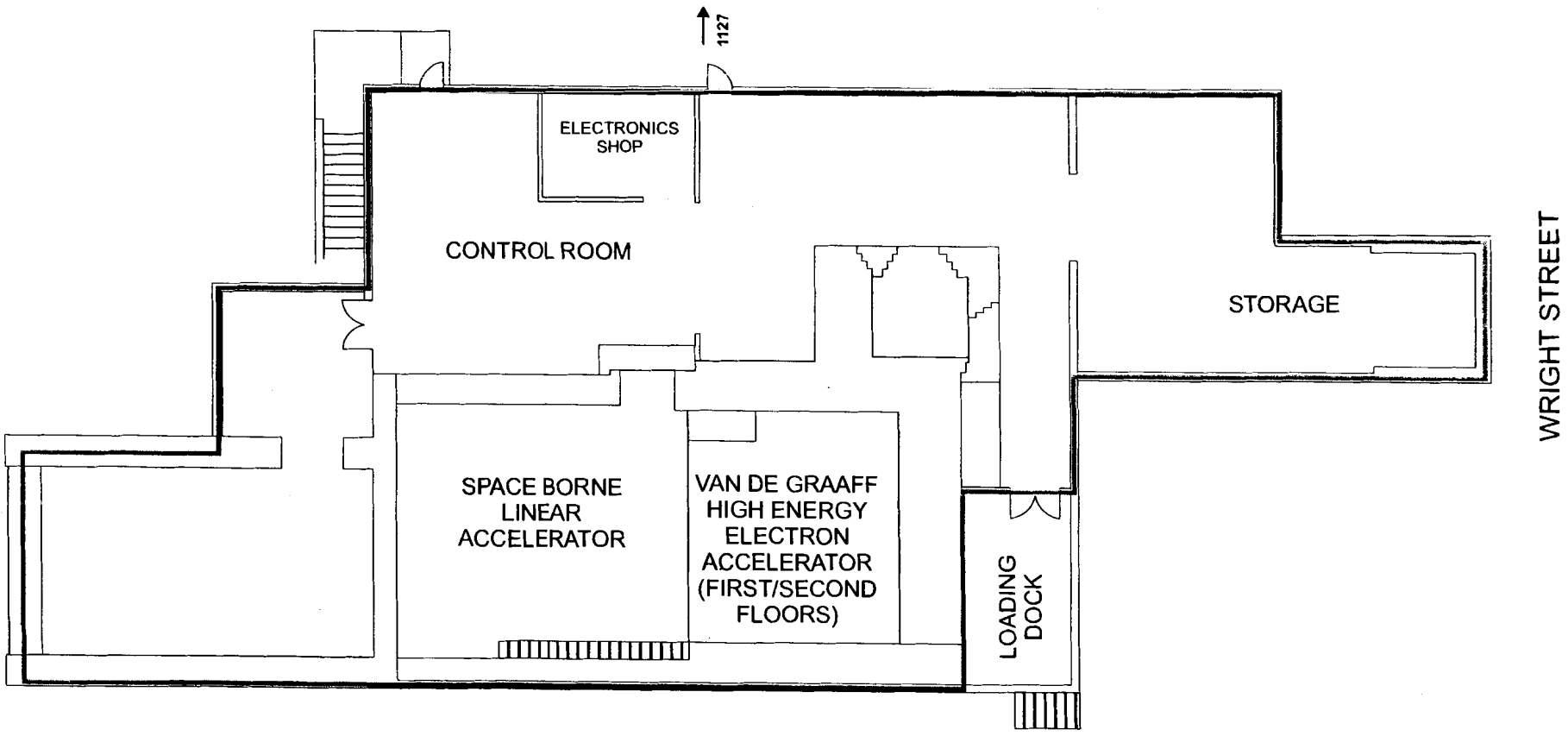
MAY 2001

SCIENCE LABORATORY BUILDING 1126

HIGH ENERGY PARTICLE ACCELERATOR LAB



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MAY 2001