DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Centers for Disease Control
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October 7, 2002

Mr. Mike Winkler
President
Administrative and Residual Employees Union

Dear Mr. Winkler:

Please find enclosed preliminary data on environmental work carried out on the Sigourney Street building by our contractors, Environmental Health and Engineering. We plan to prepare interim reports summarizing this information but are releasing it as received to help target building remediation efforts. Included are results of the boroscope assessment of the 16th, 17th, 18th and 19th floors carried out on 06/27/2002, and 07/15-16/2002; results of the in-wall spore-trap sampling done on all floors on 06/27/2002 and 07/15 – 17/2002; and an Environmental Health and Engineering report on evaluation of the restrooms in the Sigourney Street building for water leaks and fungal growth.

We are providing this information to the employee unions (A&R, CEUI, CSEA and AFSCME), the Connecticut Department of Public Works, the Department of Revenue Services, and the Department of Social Services.

Yours sincerely,

Jean Cox-Ganser, Ph.D.
Epidemiologist
NIOSH

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 1 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Fifth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46137	5-1	2,152	*Cladosporium* 1,020 *Penicillium/Aspergillus* types[3] 511 Basidiospores[2] 511 Smuts, *Periconia*, Myxomycetes[2] 44 Bipolaris/Drechslera group 22 Epicoccum 22 Other brown 22
46138	5-2	1,022	Basidiospores 511 *Penicillium/Aspergillus* types 511
46139	5-3	<23	
46140	5-4	111	*Penicillium/Aspergillus* types[3] 89 *Pithomyces* 22
46141	5-5	89	*Penicillium/Aspergillus* types 89
46142	5-6	22	*Penicillium/Aspergillus* types 22
46143	5-7	89	*Penicillium/Aspergillus* types 89
46144	5-7 DUP	<23	
46145	5-8	1,020	*Penicillium/Aspergillus* types 1,020
46146	5-9	89	Basidiospores 89
46147	5-10	89	*Cladosporium* 89
46148	5-11	<23	
46149	5-12	267	Basidiospores 178 *Cladosporium* 89
46150	5-13	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 2 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Sixth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46102	6-1	511	*Penicillium/Aspergillus* types[3] 511
46103	6-2	<23	
46104	6-3	<23	
46105	6-4	267	Ascospores[2] 178 Basidiospores[2] 89
46106	6-5	<23	
46107	6-6	<23	
46108	6-6 DUP	89	*Penicillium/Aspergillus* types[3] 89
46109	6-7	111	Ascospores[2] 89 *Alternaria* 22
46110	6-8	1,020	*Penicillium/Aspergillus* types[3] 1,020
46136	6-9	467	*Penicillium/Aspergillus* types[3] 178 *Cladosporium* 178 Basidiospores[2] 89 Other brown 22
46112	6-10	89	*Penicillium/Aspergillus* types[3] 89
46113	6-11	<23	
46114	6-12	444	*Penicillium/Aspergillus* types[3] 444
46115	6-13	<23	
46116	6-14	<23	
46117	6-14 DUP	356	*Cladosporium* 178 Basidiospores[2] 89 *Penicillium/Aspergillus* types[3] 89
46118	6-15	178	*Penicillium/Aspergillus* types[3] 178
46119	6-16	89	*Penicillium/Aspergillus* types[3] 89
46120	6-17	111	*Penicillium/Aspergillus* types[3] 89 Smuts, *Periconia*, Myxomycetes[2] 22
46121	6-18	<23	
46122	6-19	89	*Penicillium/Aspergillus* types[3] 89
46123	6-20	1,020	*Penicillium/Aspergillus* types[3] 1,020
46124	6-21	22	Other colorless 22
46125	6-22	89	*Penicillium/Aspergillus* types[3] 89
46126	6-22 DUP	511	*Penicillium/Aspergillus* types[3] 511
46128	6-24	<23	
46158	6-23	2,040	*Penicillium/Aspergillus* types[3] 2,040
46129	6-25	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

46130	6-26	89	*Cladosporium* 89
46131	6-27	89	*Penicillium/Aspergillus* types[3] 89
46132	6-28	<23	
46133	6-29	<23	
46134	6-30	111	Basidiospores[2] 89 *Alternaria* 22
46135	6-31	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 3 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Seventh Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46068	7-1	200	*Penicillium/Aspergillus* types[3] 178 Other brown 22
46069	7-2	<23	
46070	7-3	311	Basidiospores[2] 89 *Cladosporium* 89 *Penicillium/Aspergillus* types[3] 89 Other brown 22 *Trichocladium* 22
46071	7-4	511	*Penicillium/Aspergillus* types[3] 511
46072	7-5	89	Basidiospores[2] 89
46073	7-5 DUP	111	Ascospores[2] 89 Other brown 22
46074	7-6	89	*Penicillium/Aspergillus* types[3] 89
46075	7-7	<23	
46076	7-8	<23	
46077	7-9	<23	
46078	7-10	<23	
46079	7-11	<23	
46080	7-12	<23	
46081	7-13	<23	
46082	7-14	<23	
46083	7-15	<23	
46084	7-16	<23	
46085	7-17	<23	
46086	7-18	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

46087	7-18 DUP	267	*Cladosporium* 178 Basidiospores[2] 89
46088	7-19	1,530	*Penicillium/Aspergillus* types[3] 1,530
46089	7-20	89	Basidiospores[2] 89
46090	7-21	<23	
46091	7-22	<23	
46092	7-23	89	*Penicillium/Aspergillus* types[3] 89
46093	7-24	645	Basidiospores[2] 356 Ascospores[2] 178 *Penicillium/Aspergillus* types[3] 89 Smuts, *Periconia*, Myxomycetes[2] 22
46094	7-25	<23	
46095	7-26	89	*Penicillium/Aspergillus* types[3] 89
46096	7-27	511	*Penicillium/Aspergillus* types[3] 511
46097	7-27 DUP	<23	
46098	7-28	<23	
46099	7-29	<23	
46100	7-30	<23	
46101	7-31	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 4 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Eighth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46034	8-1	511	*Penicillium/Aspergillus* types[3] 511
46035	8-1 Dup	<23	
46036	8-2	1,022	*Penicillium/Aspergillus* types[3] 1,000 Other brown 22
46037	8-3	<23	
46038	8-4	267	*Penicillium/Aspergillus* types[3] 178 Basidiospores[2] 89
46039	8-5	378	*Penicillium/Aspergillus* types[3] 267 Basidiospores[2] 89 Other brown 22
46040	8-6	111	*Cladosporium* 89 Other colorless 22
46041	8-7	533	*Penicillium/Aspergillus* types[3] 511 Other brown 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

46042	8-8	667	Ascospores[2] 356 *Penicillium/Aspergillus* types[3] 178 Basidiospores[2] 89 Other brown 22 Other colorless 22
46043	8-9	556	*Penicillium/Aspergillus* types[3] 489 Other brown 67
46044	8-10	511	*Penicillium/Aspergillus* types[3] 511
46045	8-11	1,044	*Penicillium/Aspergillus* types[3] 511 *Cladosporium* 511 *Alternaria* 22
46046	8-12	511	*Cladosporium* 511
46047	8-13	289	*Penicillium/Aspergillus* types[3] 267 Other brown 22
46048	8-13 Dup	289	*Cladosporium* 178 *Penicillium/Aspergillus* types[3] 89 Other brown 22
46049	8-14	511	*Penicillium/Aspergillus* types[3] 511
46050	8-15	533	Basidiospores[2] 511 Other brown 22
46051	8-16	533	*Cladosporium* 511 Other brown 22
46052	8-17	22	Other colorless 22
46053	8-18	289	*Penicillium/Aspergillus* types[3] 178 Basidiospores[2] 89 Other brown 22
46054	8-19	1,000	*Penicillium/Aspergillus* types[3] 1,000
46055	8-20	511	*Penicillium/Aspergillus* types[3] 511
46056	8-21	200	Basidiospores[2] 89 *Cladosporium* 89 *Chaetomium* 22
46057	8-22	445	*Penicillium/Aspergillus* types[3] 267 *Cladosporium* 178
46058	8-23	<23	
46059	8-24	356	*Cladosporium* 178 Ascospores[2] 89 *Penicillium/Aspergillus* types[3] 89
46060	8-25	511	*Penicillium/Aspergillus* types[3] 511
46061	8-26	<23	
46062	8-27	22	Other brown 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

46063	8-27 Dup	200	Basidiospores[2] 89 *Cladosporium* 89 Bipolaris/Drechslera group 22
46064	8-28	533	*Penicillium/Aspergillus* types[3] 511 Other brown 22
46065	8-29	<23	
46066	8-30	<23	
46067	8-31	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 5 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Ninth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46000	9-1	<23	
46001	9-2	178	*Penicillium/Aspergillus* types[3] 178
46002	9-3	89	*Penicillium/Aspergillus* types[3] 89
46003	9-4	<23	
46004	9-4 Dup	111	Basidiospores[2] 89 Other colorless 22
46005	9-5	<23	
46006	9-6	178	*Cladosporium* 178
46007	9-7	178	*Cladosporium* 89 *Penicillium/Aspergillus* types[3] 89
46008	9-8	<23	
46009	9-9	511	*Penicillium/Aspergillus* types[3] 511
46010	9-10	89	*Penicillium/Aspergillus* types[3] 89
46011	9-11	<23	
46012	9-12	22	Smuts, *Periconia*, Myxomycetes[2] 22
46013	9-13	511	*Penicillium/Aspergillus* types[3] 511
46014	9-14	178	Basidiospores[2] 89 *Penicillium/Aspergillus* types[3] 89
46015	9-15	<23	
46016	9-16	<23	
46017	9-16 Dup	71	Ascospores[2] 71
46018	9-17	89	*Penicillium/Aspergillus* types[3] 89
46019	9-18	89	*Penicillium/Aspergillus* types[3] 89
46020	9-19	111	*Cladosporium* 89 Other brown 22
46021	9-20	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

46022	9-21	<23	
46023	9-22	178	Basidiospores[2] 89 *Penicillium/Aspergillus* types[3] 89
46024	9-23	1,022	*Cladosporium* 511 *Penicillium/Aspergillus* types[3] 511
46025	9-24	<23	
46026	9-25	356	*Penicillium/Aspergillus* types[3] 267 Basidiospores[2] 89
46027	9-26	289	*Cladosporium* 178 Basidiospores[2] 89 Smuts, *Periconia*, Myxomycetes[2] 22
46028	9-27	22	Smuts, *Periconia*, Myxomycetes[2] 22
46029	9-28	<23	
46030	9-29 Dup	111	*Penicillium/Aspergillus* types[3] 89 Smuts, *Periconia*, Myxomycetes[2] 22
46031	9-29	267	*Penicillium/Aspergillus* types[3] 178 Basidiospores[2] 89
46032	9-30	<23	
46033	9-31	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 6 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Tenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45966	10-1	289	*Penicillium/Aspergillus* types[3] 267 *Alternaria* 22
45967	10-2	<23	
45968	10-3	<23	
45969	10-4	22	Smuts, *Periconia*, Myxomycetes[2] 22
45970	10-4 Dup	200	Bipolaris/Drechslera group 89 *Penicillium/Aspergillus* types[3] 89 Other brown 22
45971	10-5	<23	
45972	10-6	89	Basidiospores[2] 89
45973	10-7	111	*Penicillium/Aspergillus* types[3] 67 Basidiospores[2] 22 Other brown 22
45974	10-8	22	Other brown 22
45975	10-9	<23	
45976	10-10	<23	
45977	10-11	<23	
45978	10-12	22	Other brown 22
45979	10-12 Dup	<23	
45980	10-13	22	Other brown 22
45981	10-14	<23	
45982	10-15	<23	
45983	10-16	<23	
45984	10-17	22	Other brown 22
45985	10-18	44	Ascospores[2] 22 *Penicillium/Aspergillus* types[3] 22
45986	10-19	66	*Cladosporium* 44 Other brown 22
45987	10-20	22	Basidiospores[2] 22
45988	10-21	<23	
45989	10-22	<23	
45990	10-23	<23	
45991	10-24	22	Other brown 22
45992	10-25	18	*Penicillium/Aspergillus* types[3] 18

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45993	10-26	22	Other brown 22
45994	10-26 Dup	<23	
45995	10-27	<23	
45996	10-28	<23	
45997	10-29	<23	
45998	10-30	44	*Epicoccum* 22 Other brown 22
45999	10-31	<23	

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 7 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Eleventh Floor at 25 Sigourney Street, Hartford, Connecticut, July 16, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45931	11-1	<23	
45932	11-1 Dup	<23	
45933	11-2	<23	
45934	11-3	22	Other brown 22
45935	11-4	22	Basidiospores[2] 22
45936	11-5	133	Basidiospores[2] 89 *Cladosporium* 44
45937	11-6	22	*Cladosporium* 22
45938	11-7	<23	
45939	11-8	22	*Penicillium/Aspergillus* types[3] 22
45940	11-9	<20	
45941	11-10	22	Other brown 22
45942	11-11	<23	
45943	11-12	44	*Penicillium/Aspergillus* types[3] 22 Other brown 22
45944	11-12 Dup	44	*Penicillium/Aspergillus* types[3] 22 Basidiospores[2] 22
45945	11-13	66	Other brown 44 Ascospores[2] 22
45946	11-14	<23	
45947	11-15	22	*Penicillium/Aspergillus* types[3] 22
45948	11-16	88	*Alternaria* 22 Basidiospores[2] 22 *Cladosporium* 22 Other brown 22
45949	11-17	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45950	11-18	22	*Penicillium/Aspergillus* types[3] 22
45951	11-19	66	*Penicillium/Aspergillus* types[3] 44 Other brown 22
45952	11-20	88	Other brown 44 Basidiospores[2] 22 *Penicillium/Aspergillus* types[3] 22
45954	11-22	44	*Penicillium/Aspergillus* types[3] 22 Other brown 22
45955	11-23	22	*Penicillium/Aspergillus* types[3] 22
45956	11-24	44	Basidiospores[2] 22 *Penicillium/Aspergillus* types[3] 22
45957	11-24 Dup	22	Other brown 22
45958	11-25	22	Other brown 22
45959	11-26	<23	
45960	11-27	44	Alternaria 22 Other brown 22
45961	11-28	22	*Penicillium/Aspergillus* types[3] 22
45962	11-29	<23	
45963	11-30	<23	
45964	11-31	<23	
45965	11-21	22	*Penicillium/Aspergillus* types[3] 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 8 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Twelfth Floor at 25 Sigourney Street, Hartford, Connecticut, July 16, 2002

Sample ID	Location	**Total Concentration[1] (spores/m^3)**	**Species Type and Concentration (spores/m^3)**
45897	12-1	22	Other brown 22
45898	12-2	44	Other colorless 22 *Stachybotrys chartarum (atra)* 22
45899	12-3	44	Basidiospores[2] 22 Other brown 22
45900	12-3 Dup	44	*Cladosporium* 44
45901	12-4	<23	
45902	12-5	<23	
45903	12-6	22	*Cladosporium* 22
45904	12-7	<23	
45905	12-8	66	*Cladosporium* 44 Basidiospores[2] 22
45906	12-9	22	Other brown 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45907	12-10	44	*Cladosporium* 22 Smuts, *Periconia*, Myxomycetes[2] 22
45908	12-11	22	Other brown 22
45909	12-12	<23	
45910	12-13	<23	
45911	12-14	<23	
45912	12-15	<23	
45913	12-16	22	Other brown 22
45914	12-17	<23	
45915	12-17 Dup	<23	
45916	12-18	22	Other brown 22
45917	12-19	22	Other brown 22
45918	12-20	<23	
45919	12-21	22	Other brown 22
45920	12-22	<23	
45921	12-23	22	*Cladosporium* 22
45922	12-24	44	Ascospores[2] 22 Basidiospores[2] 22
45923	12-25	<23	
45924	12-26	22	*Pithomyces* 22
45925	12-27	<23	
45926	12-28	<23	
45927	12-28 Dup	<23	
45928	12-29	22	Other brown 22
45929	12-30	66	Basidiospores[2] 22 Other brown 22 *Penicillium/Aspergillus* types[3] 22
45930	12-31	22	Other brown 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 9 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Fourteenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 16, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45863	14-1	<23	
45864	14-2	22	Basidiospores[2] 22
45865	14-3	22	Other brown 22
45866	14-4	<23	
45867	14-5	44	Other brown 22 *Penicillium/Aspergillus* types[3] 22
45868	14-6	<23	
45869	14-7	<23	
45870	14-8	66	Other brown 44 Ascospores[2] 22
45871	14-9	<23	
45872	14-9 Dup	<23	
45873	14-10	<23	
45874	14-11	<23	
45875	14-12	22	Ascospores[2] 22
45876	14-13	<23	
45877	14-14	44	Basidiospores[2] 22 Other brown 22
45878	14-15	<23	
45879	14-15 Dup	511	*Penicillium/Aspergillus* types[3] 511
45880	14-16	89	*Penicillium/Aspergillus* types[3] 89
45881	14-17	44	Ascospores[2] 22 Other brown 22
45882	14-18	<23	
45883	14-19	<23	
45884	14-20	22	Other brown 22
45885	14-21	22	Other brown 22
45886	14-22	<23	
45887	14-22 Dup	<23	
45888	14-23	<23	
45889	14-24	22	Other brown 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45890	14-25	110	*Cladosporium* 44 *Penicillium/Aspergillus types*[3] 44 Ascospores[2] 22
45891	14-26	22	Other brown 22
45892	14-27	22	*Stachybotrys chartarum (atra)* 22
45893	14-28	44	*Nigrospora* 22 *Penicillium/Aspergillus types*[3] 22
45894	14-29	66	*Cladosporium* 44 *Penicillium/Aspergillus types*[3] 22
45895	14-30	66	*Penicillium/Aspergillus types*[3] 44 Basidiospores[2] 22
45896	14-31	155	*Nigrospora* 133 Other brown 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 10 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Fifteenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 16, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45829	15-1	22	Other brown 22
45830	15-2	44	*Nigrospora* 44
45831	15-3	155	*Cladosporium* 89 Basidiospores[2] 44 Ascospores[2] 22
45832	15-4	44	Basidiospores[2] 22 *Penicillium/Aspergillus* types[3] 22
45833	15-5	<23	
45834	15-6	22	Other brown 22
45835	15-7	44	*Penicillium/Aspergillus* types[3] 44
45836	15-7 Dup	22	*Nigrospora* 22
45837	15-8	22	Other colorless 22
45838	15-9	67	*Nigrospora* 67
45839	15-10	44	*Epicoccum* 22 Other brown 22
45840	15-11	22	Other brown 22
45841	15-12	66	Basidiospores[2] 22 *Nigrospora* 22 Other brown 22
45842	15-13	22	Basidiospores[2] 22
45843	15-13 Dup	38	Ascospores[2] 38
45844	15-14	44	*Cladosporium* 22 *Nigrospora* 22
45845	15-15	22	Other brown 22
45846	15-16	22	*Penicillium/Aspergillus* types[3] 22
45847	15-17	66	*Nigrospora* 44 Other colorless 22
45848	15-18	22	*Penicillium/Aspergillus* types[3] 22
45849	15-19	22	*Nigrospora* 22
45850	15-20	67	*Nigrospora* 67
45851	15-21	22	*Cladosporium* 22
45852	15-21 Dup	44	Other brown 22 *Stachybotrys chartarum (atra)* 22
45853	15-22	89	*Penicillium/Aspergillus* types[3] 67 *Nigrospora* 22
45854	15-23	44	Basidiospores[2] 22 *Penicillium/Aspergillus* types[3] 22
45855	15-24	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45856	15-25	44	Other brown 22 *Penicillium/Aspergillus types*[3] 22
45857	15-26	22	Other brown 22
45858	15-27	44	Basidiospores[2] 22 Other brown 22
45859	15-28	22	Other brown 22
45860	15-29	<23	
45861	15-30	88	Basidiospores[2] 44 Other brown 22 Smuts, *Periconia*, Myxomycetes[2] 22
45862	15-31	22	Other brown 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 11 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Sixteenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 16, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45794	16-1	778	*Stachybotrys chartarum (atra)* 689 Basidiospores[2] 89
45795	16-2	155	*Penicillium/Aspergillus* types[3] 89 *Alternaria* 22 Other brown 22 *Stachybotrys chartarum (atra)* 22
45796	16-3	89	Basidiospores[2] 89
45797	16-4	111	*Cladosporium* 89 Other brown 22
45798	16-5	133	*Cladosporium* 89 *Nigrospora* 22 Other brown 22
45801	16-7	555	*Penicillium/Aspergillus* types[3] 533 Other brown 22
45802	16-8	44	Other brown 22
45803	16-9	378	*Penicillium/Aspergillus* types[3] 267 Basidiospores[2] 89 *Nigrospora* 22
45804	16-10	66	*Penicillium/Aspergillus* types[3] 44 *Cladosporium* 22
45805	16-11	555	*Penicillium/Aspergillus* types[3] 533 Other brown 22
45806	16-12	22	Other colorless 22
45807	16-13	577	*Penicillium/Aspergillus* types[3] 533 Other brown 22 Other colorless 22
45808	16-14	1,070	*Penicillium/Aspergillus* types[3] 1,070
45809	16-15	178	*Cladosporium* 89 *Penicillium/Aspergillus* types[3] 89
45810	16-15 Dup	<23	
45811	16-16	289	*Penicillium/Aspergillus* types[3] 267 Other colorless 22
45812	16-17	<23	
45813	16-18	22	Other brown 22
45814	16-19	22	*Penicillium/Aspergillus* types[3] 22
45815	16-20	22	*Penicillium/Aspergillus* types[3] 22
45816	16-21	<23	
45817	16-22	<23	
45818	16-23	44	*Cladosporium* 22 Other brown 22
45819	16-24	44	*Penicillium/Aspergillus* types[3] 22 *Pithomyces* 22
45820	16-24 Dup	22	Basidiospores[2] 22
45821	16-25	88	Other brown 44 Basidiospores[2] 22 *Penicillium/Aspergillus* types[3] 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45822	16-26	<23	
45823	16-27	44	Other brown 22 *Penicillium/Aspergillus* types[3] 22
45824	16-28	89	*Penicillium/Aspergillus* types[3] 89
45825	16-29	44	*Nigrospora* 22 Other brown 22
45826	16-30	533	*Penicillium/Aspergillus* types[3] 533
45827	16-31	178	*Penicillium/Aspergillus* types[3] 178
45828	16-31 Dup	133	*Penicillium/Aspergillus* types[3] 89 Other brown 22 Other colorless 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.
2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.
3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

Table 12 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Seventeenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 15, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45762	17-1	89	*Penicillium/Aspergillus* types[3] 89
45763	17-2	22	Other brown 22
45764	17-3	88	Ascospores[2] 22 Basidiospores[2] 22 Other brown 22 *Penicillium/Aspergillus* types[3] 22
45765	17-4	<23	
45766	17-5	22	*Stachybotrys chartarum (atra)* 22
45767	17-6	<23	
45768	17-7	44	*Penicillium/Aspergillus* types[3] 44
45769	17-8	222	Basidiospores[2] 89 *Cladosporium* 89 Other colorless 44
45770	17-9	88	Basidiospores[2] 22 *Cladosporium* 22 Other brown 22 *Penicillium/Aspergillus* types[3] 22
45771	17-10	22	*Penicillium/Aspergillus* types[3] 22
45772	17-11	44	*Cladosporium* 22 Other colorless 22
45773	17-12	44	*Penicillium/Aspergillus* types[3] 44
45774	17-13	22	Other brown 22
45775	17-14	<23	
45776	17-15	22	*Penicillium/Aspergillus* types[3] 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45777	17-16	44	Other brown 22 *Penicillium/Aspergillus* types[3] 22
45778	17-17	22	*Penicillium/Aspergillus* types[3] 22
45779	17-18	132	Other brown 44 *Penicillium/Aspergillus* types[3] 44 *Cladosporium* 22 *Pestalotiopsis* 22
45780	17-19	<23	
45781	17-20	22	*Penicillium/Aspergillus* types[3] 22
45782	17-21	22	Other brown 22
45783	17-22	<23	
45784	17-23	22	Other brown 22
45785	17-24	133	*Cladosporium* 67 *Penicillium/Aspergillus* types[3] 44 Other brown 22
45786	17-25	66	*Penicillium/Aspergillus* types[3] 44 Smuts, *Periconia*, *Myxomycetes*[2] 22
45787	17-25 Dup	22	*Penicillium/Aspergillus* types[3] 22
45788	17-26	<23	
45789	17-27	44	*Cladosporium* 22 Other colorless 22
45790	17-28	66	Nigrospora 22 Other brown 22 Smuts, *Periconia*, *Myxomycetes*[2] 22
45791	17-28 Dup	22	*Penicillium/Aspergillus* types[3] 22
45792	17-29	22	*Stachybotrys chartarum (atra)* 22
45793	17-30	22	Other brown 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 13 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Eighteenth Floor at 25 Sigourney Street, Hartford, Connecticut, July 15, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45723	18-1	22	*Cladosporium* 22
45724	18-2	178	Ascospores[2] 89 *Cladosporium* 89
45725	18-3	22	Other brown 22
45726	18-4	22	Other brown 22
45727	18-4 Dup	44	Other brown 22 *Penicillium/Aspergillus* types[3] 22
45728	18-5	<23	
45729	18-6	22	Other brown 22
45730	18-7	22	Other brown 22
45731	18-8	22	*Stachybotrys chartarum (atra)* 22
45732	18-9	<23	
45733	18-10	22	Other brown 22
45734	18-11	511	*Penicillium/Aspergillus* types[3] 511
45735	18-12	22	Other brown 22
45736	18-13	<23	
45737	18-14	<23	
45738	18-15	22	Basidiospores[2] 22
45739	18-16	178	Basidiospores[2] 89 *Penicillium/Aspergillus* types[3] 89
45740	18-17	22	Other brown 22
45741	18-18	<23	
45742	18-18 Dup	<23	
45743	18-19	22	Other brown 22
45744	18-20	44	Basidiospores[2] 22 *Nigrospora* 22
45746	18-22	22	Other brown 22
45747	18-23	178	Basidiospores[2] 89 *Stachybotrys chartarum (atra)* 89
45748	18-24	<23	
45749	18-25	22	Other brown 22

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45750	18-26	400	*Cladosporium* 356 Other brown 22 Smuts, *Periconia*, *Myxomycetes*[2] 22
45751	18-27	22	Other brown 22
45752	18-28	22	Other brown 22
45753	18-29	22	*Cladosporium* 22
45754	18-31	<23	
45755	18-32	22	Other brown 22
45756	18-33	22	Other brown 22
45757	18-34	67	Other brown 67
45758	18-34 Dup	<23	
45759	18-35	<23	
45760	18-36	22	Other brown 22
45761	18-37	<23	

[1] A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.
[2] Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.
[3] *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy

Table 14 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Nineteenth Floor at 25 Sigourney Street, Hartford, Connecticut, June 27, 2002

Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
45164	19-1	<23	
45165	19-2	22	*Stachybotrys chartarum (atra)* 22
45166	19-3	200	Basidiospores[2] 178 Smuts, *Periconia*, *Myxomycetes*[2] 22
45167	19-4	89	Basidiospores[2] 89
45168	19-5	89	*Penicillium/Aspergillus* types[3] 89
45169	19-6	<23	
45171	19-7	89	Basidiospores[2] 89
45172	19-9	89	*Penicillium/Aspergillus* types[3] 89
45173	19-11	<23	
45174	19-10	89	Basidiospores[2] 89
45175	19-8	89	Basidiospores[2] 89
45176	19-12	<23	
45177	19-13	<23	
45178	19-14	89	Basidiospores[2] 89
45179	19-15	200	Basidiospores[2] 89 *Penicillium/Aspergillus* types[3] 89 *Alternaria* 22
45180	19-16	<23	
45181	19-17	<23	

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

45182	19-18	<23	
45183	19-19	<23	
45184	19-20	<23	
45185	19-21	<23	
45187	19-23	<23	
45186	19-22	178	Basidiospores[2] 178
45188	19-24	<23	
45189	19-25	89	Basidiospores[2] 89
45190	19-26	178	Basidiospores[2] 178
45191	19-27	111	*Cladosporium* 89 Other brown 22
45192	19-28	200	*Cladosporium* 140 *Penicillium/Aspergillus* types[3] 60
45193	19-29	178	*Cladosporium* 178
45194	19-30	111	*Penicillium/Aspergillus* types[3] 89 Ascospores[2] 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.

2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens.

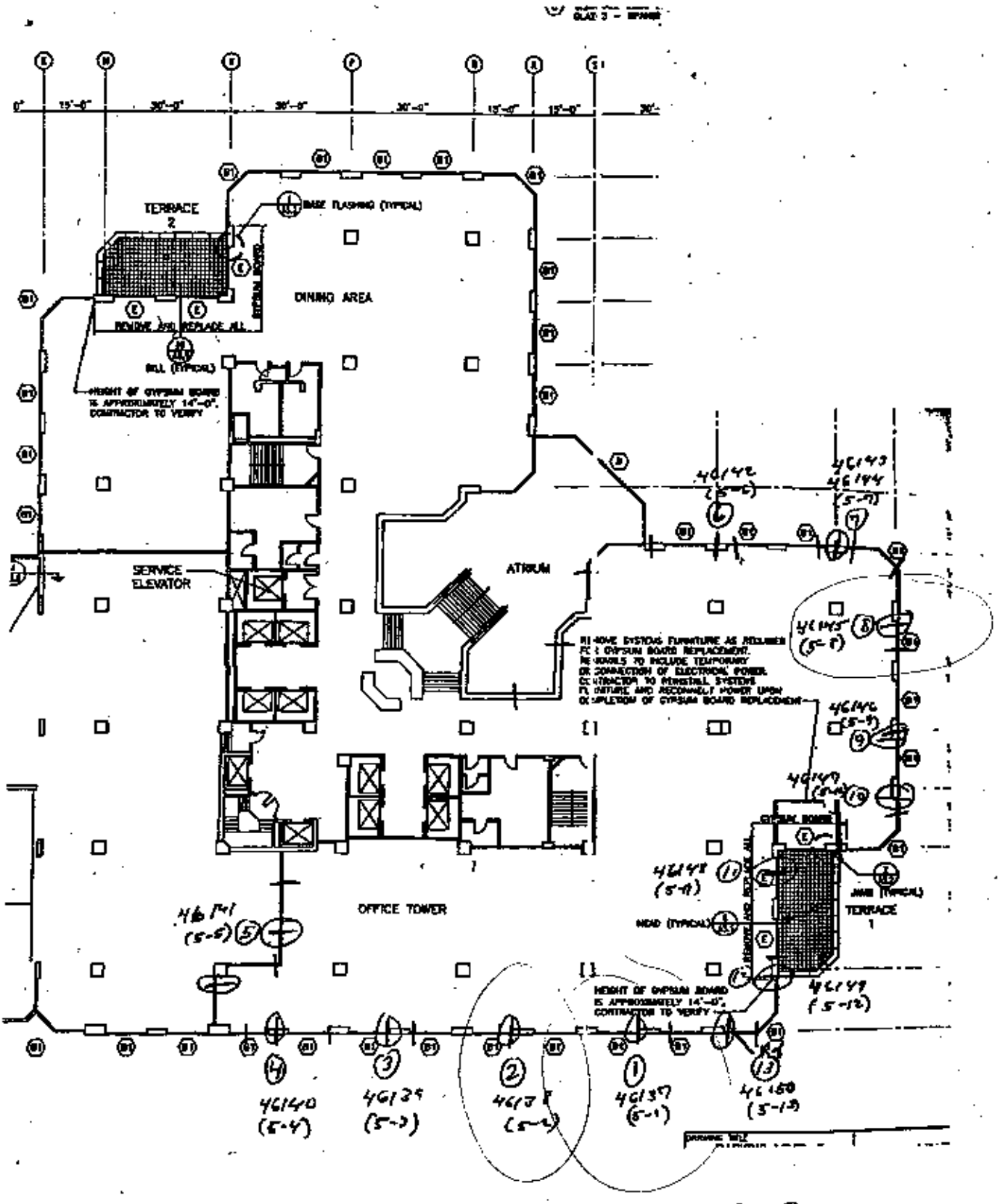
3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.

This in-wall spore-trap data is being provided to aid in targeting remediation efforts. This data should not be interpreted as indicating exposures to employees in the office spaces

Table 15 Results of Analyses for Non-Viable Fungal Spores in Wall Samples Collected on the Twentieth Floor at 25 Sigourney Street, Hartford, Connecticut, July 17, 2002

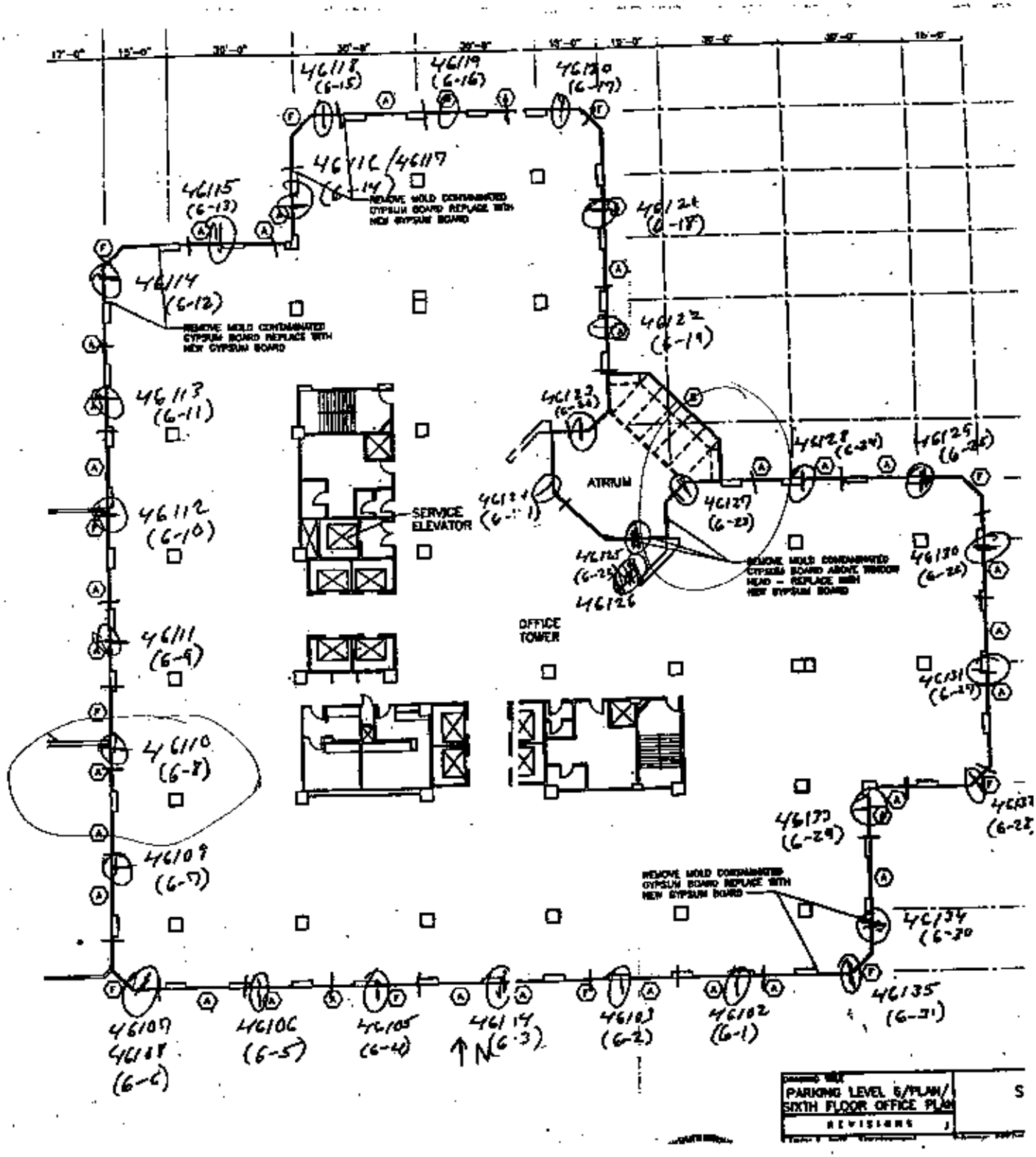
Sample ID	Location	Total Concentration[1] (spores/m^3)	Species Type and Concentration (spores/m^3)
46151	20-1	<23	
46152	20-1 Dup	533	Basidiospores[2] 511 Other brown 22
46153	20-2	22	Other brown 22
46154	20-3	178	*Stachybotrys chartarum (atra)* 156 Other brown 22
46155	20-4	22	Other brown 22
46156	20-5	<23	
46157	20-6	200	*Cladosporium* 89 *Penicillium/Aspergillus* types[3] 89 Smuts, *Periconia*, Myxomycetes[2] 22

1 A total count of 22 spores/m^3 indicated that, based on the volume of air sampled, only one spore was present.
2 Most of these spore types are not seen with culture methods, such as Andersen sampling, although some may appear as non-sporulating colonies. Basidiospores are mushroom-type spores; ascospores include yeasts; rusts and smuts are plant pathogens
3 *Penicillium* and *Aspergillus* spores are small and round with few distinguishing characteristics; they cannot be distinguished by light microscopy.



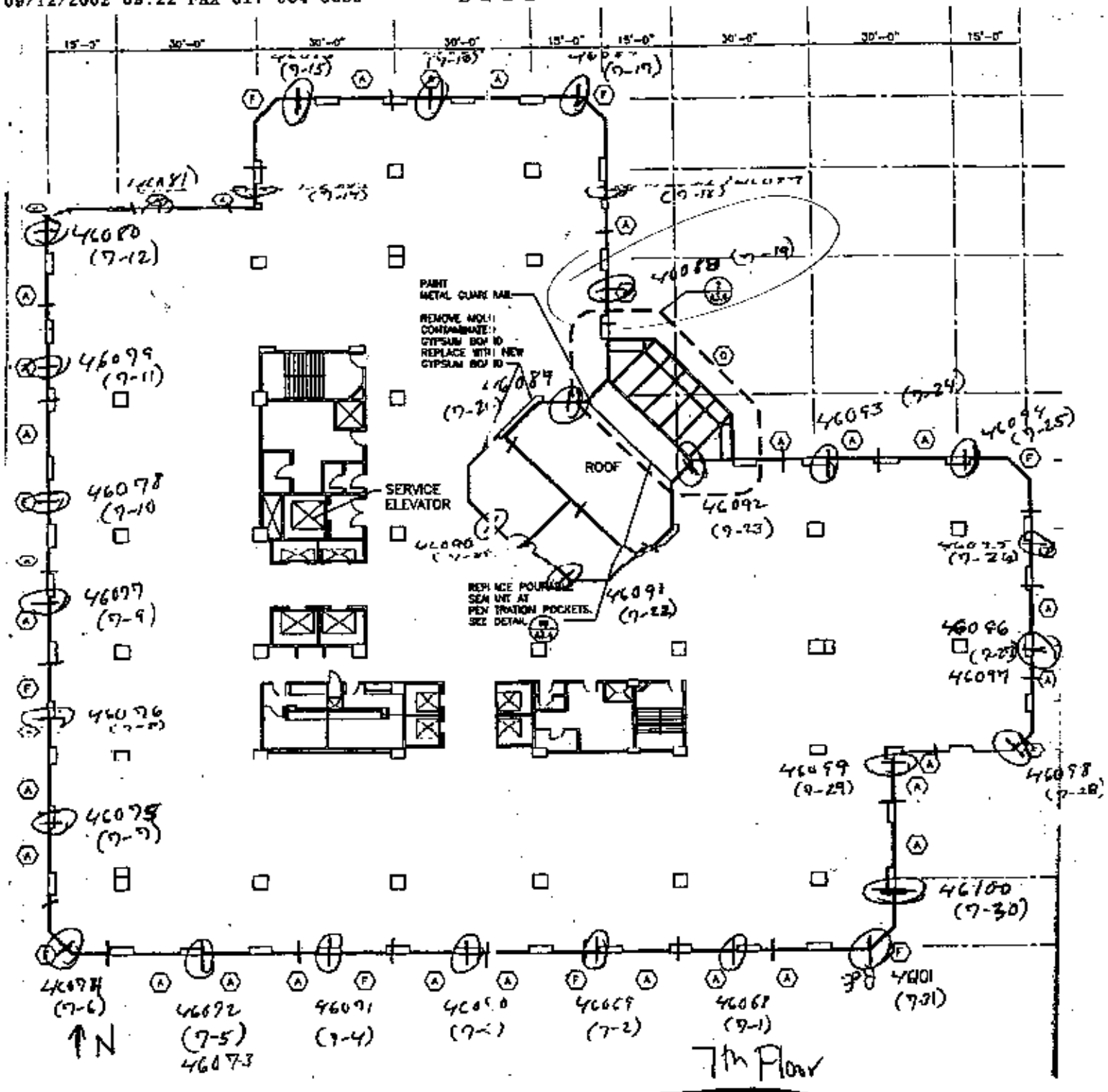
Wall Check Sampling
Master

5th Floor



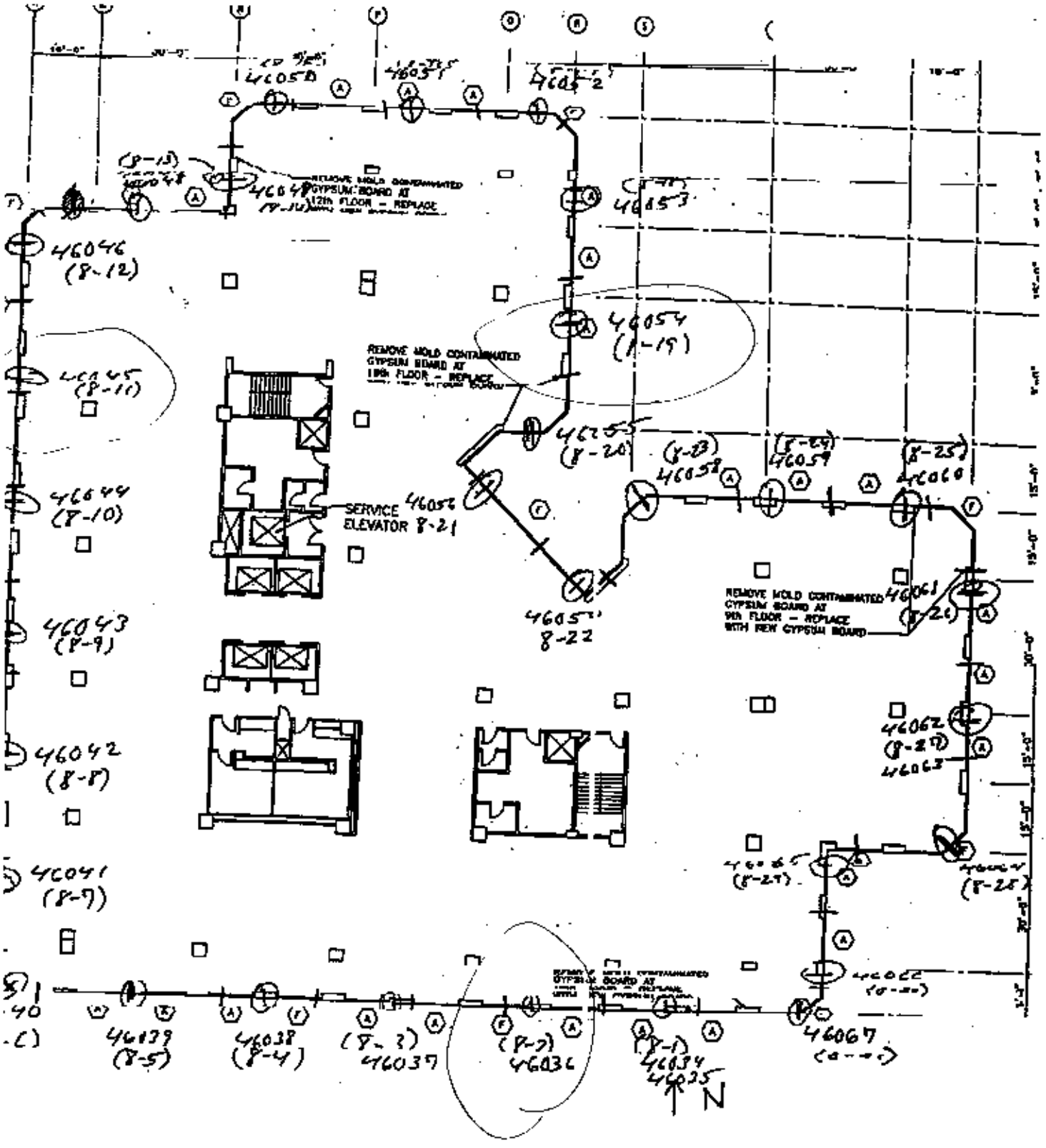
6th Flr

Wall Check Sampling Master

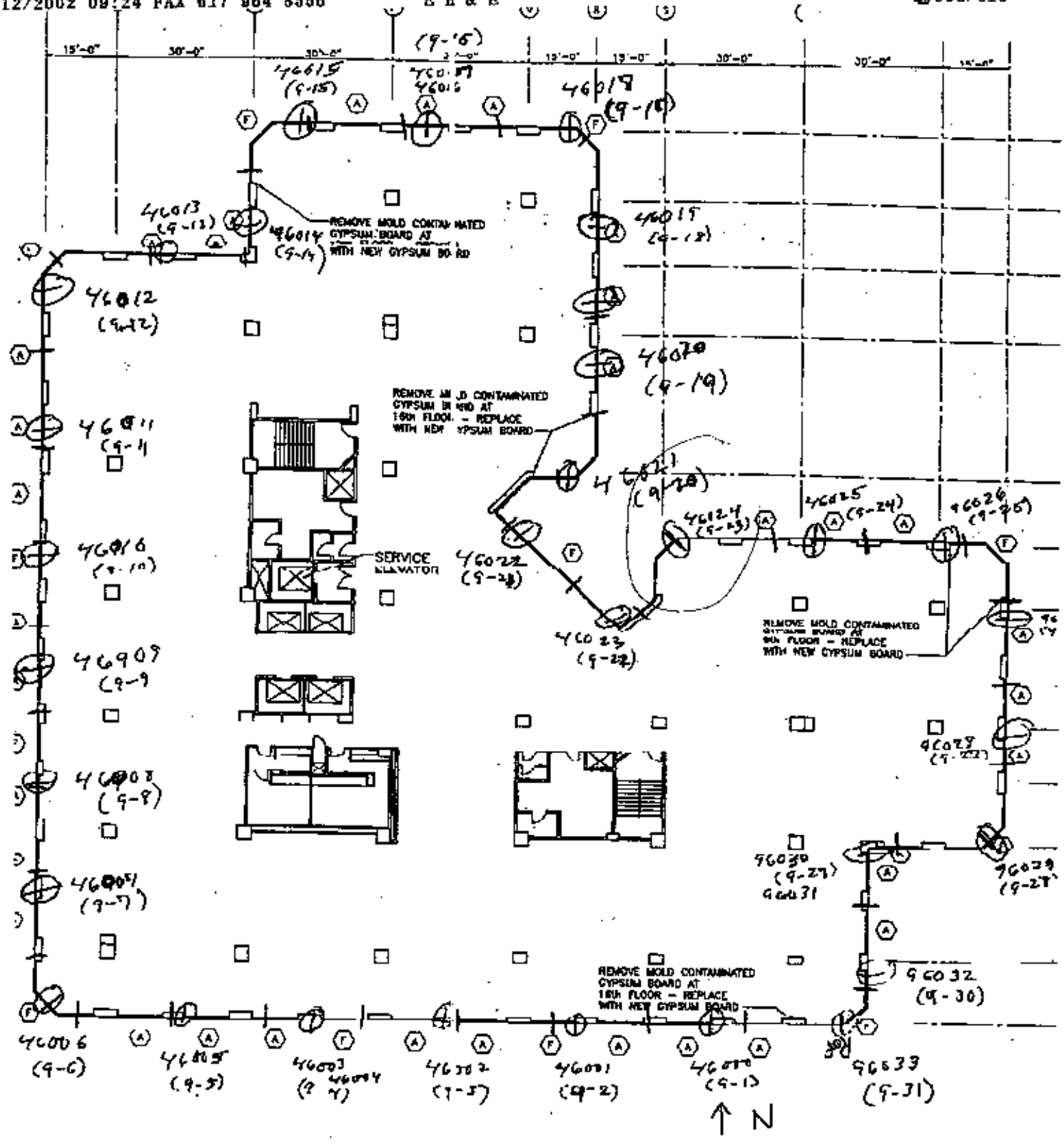


7th Floor

Wall Check Sampling Master



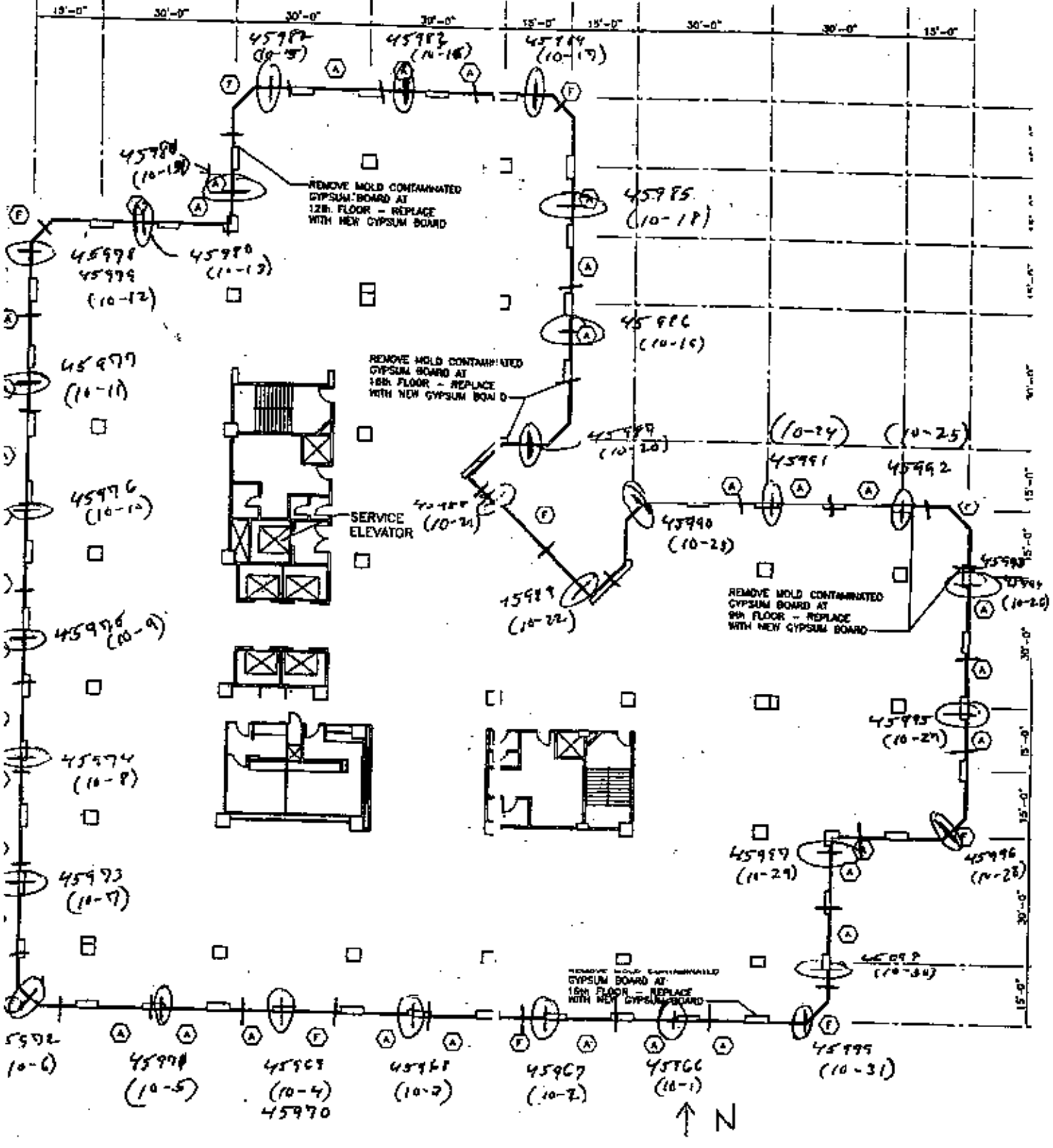
8th Floor
Well Check Sampling
Master



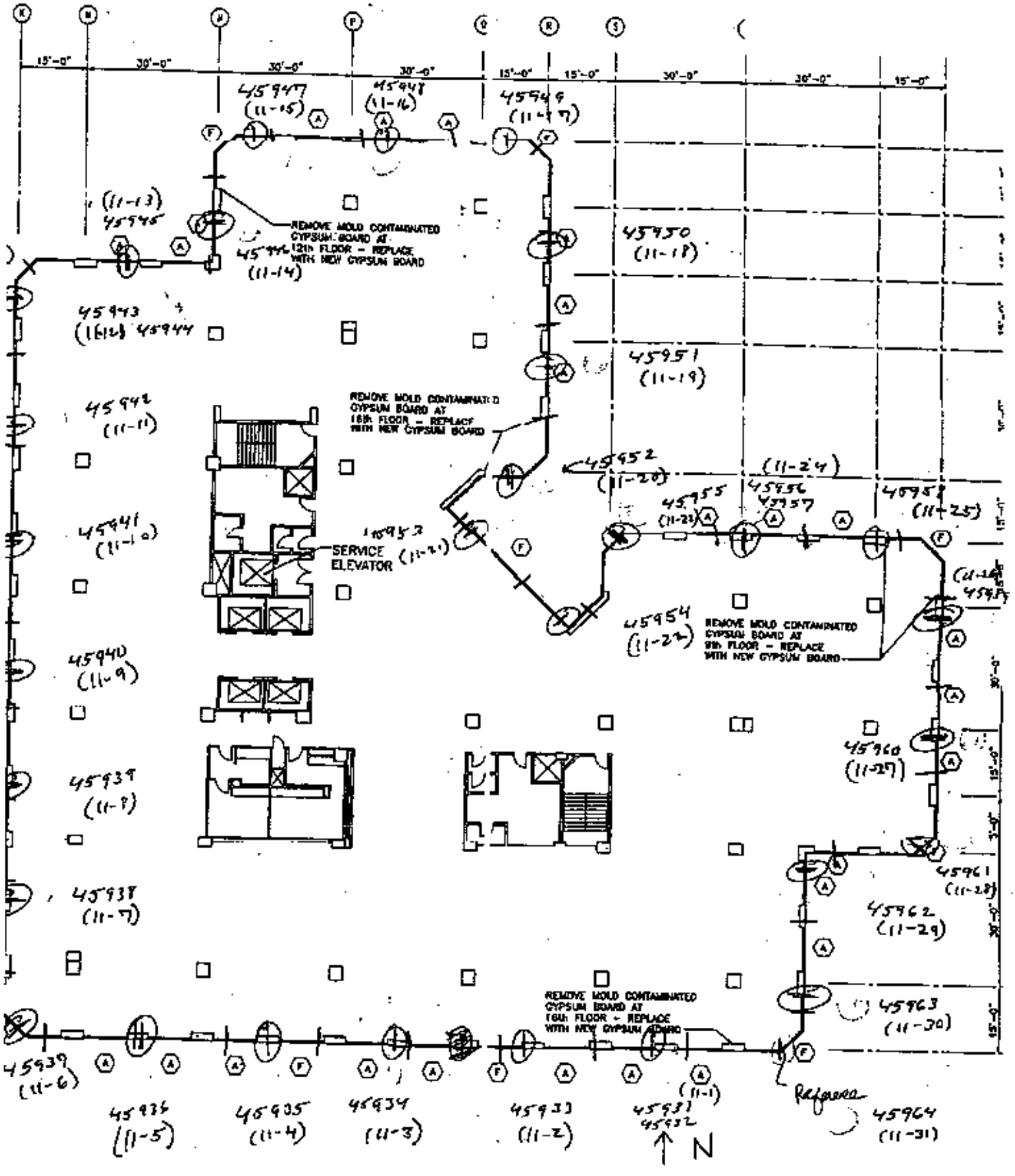
9th F/R

Wall Check Sampling

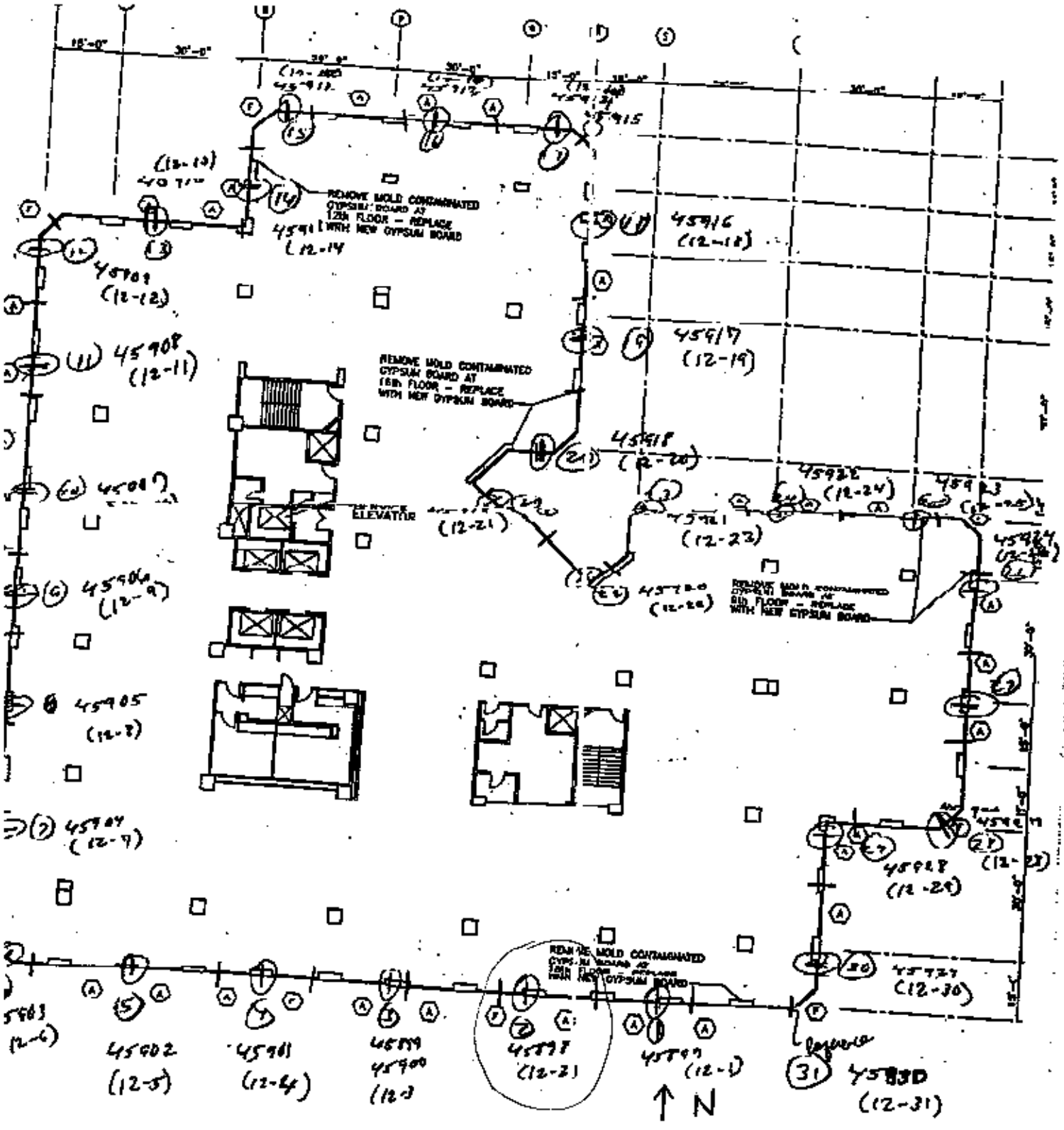
Master



10th floor
Wall Check Sampling

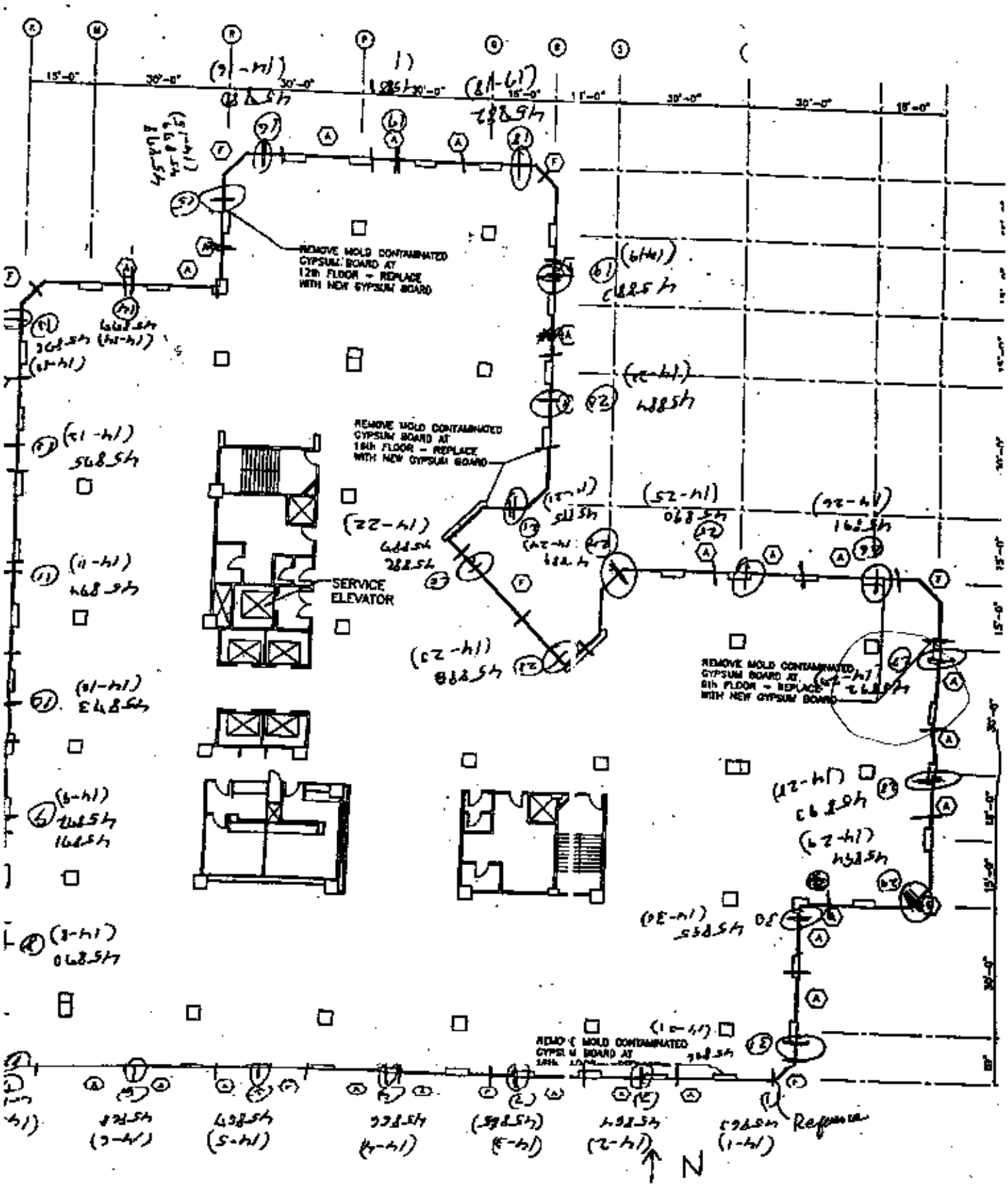


11TH Floor
Wall Check Sampling

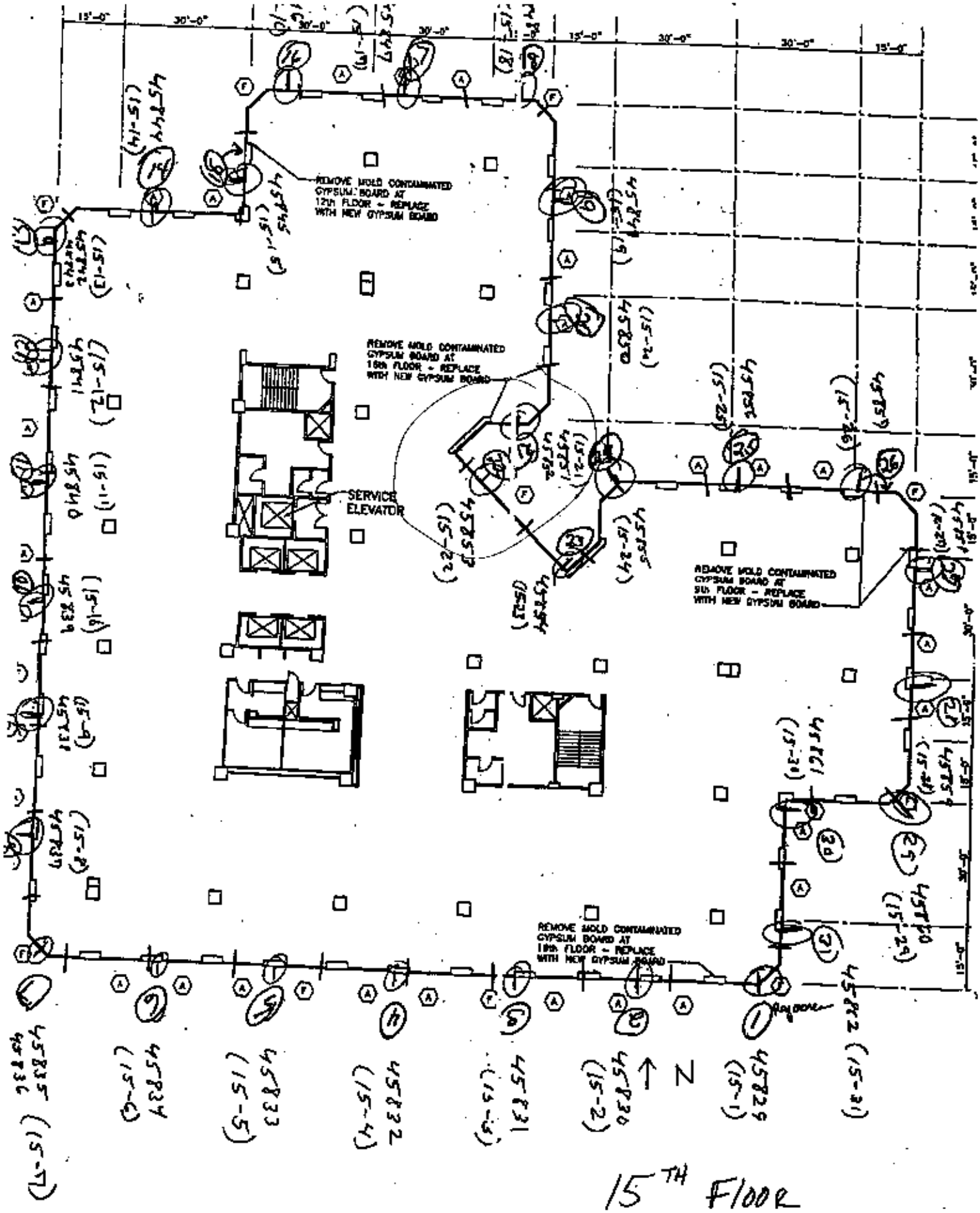


12TH FLOOR

Wall Check Sampling

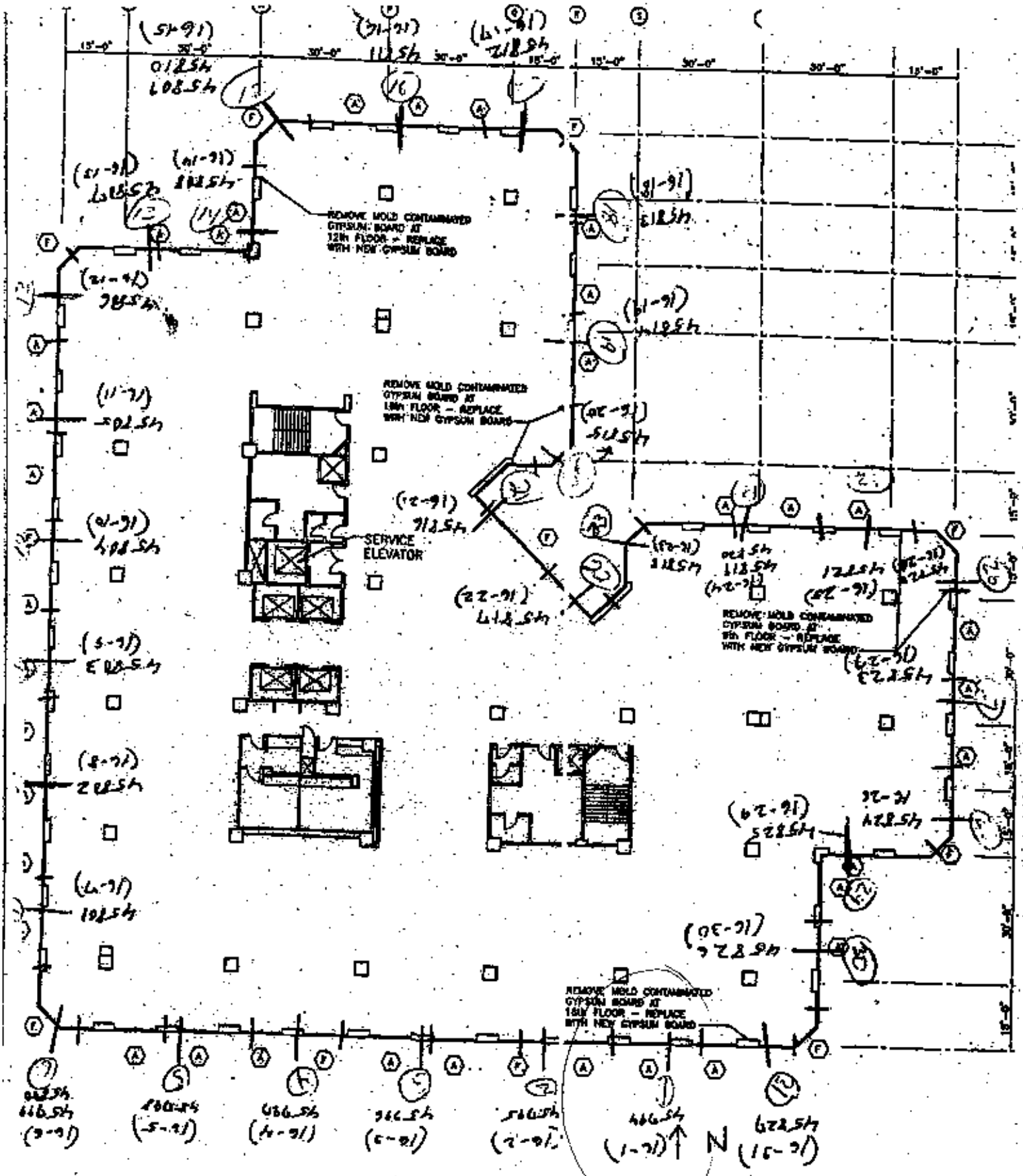


14th Floor
Wall Chalk Sampling

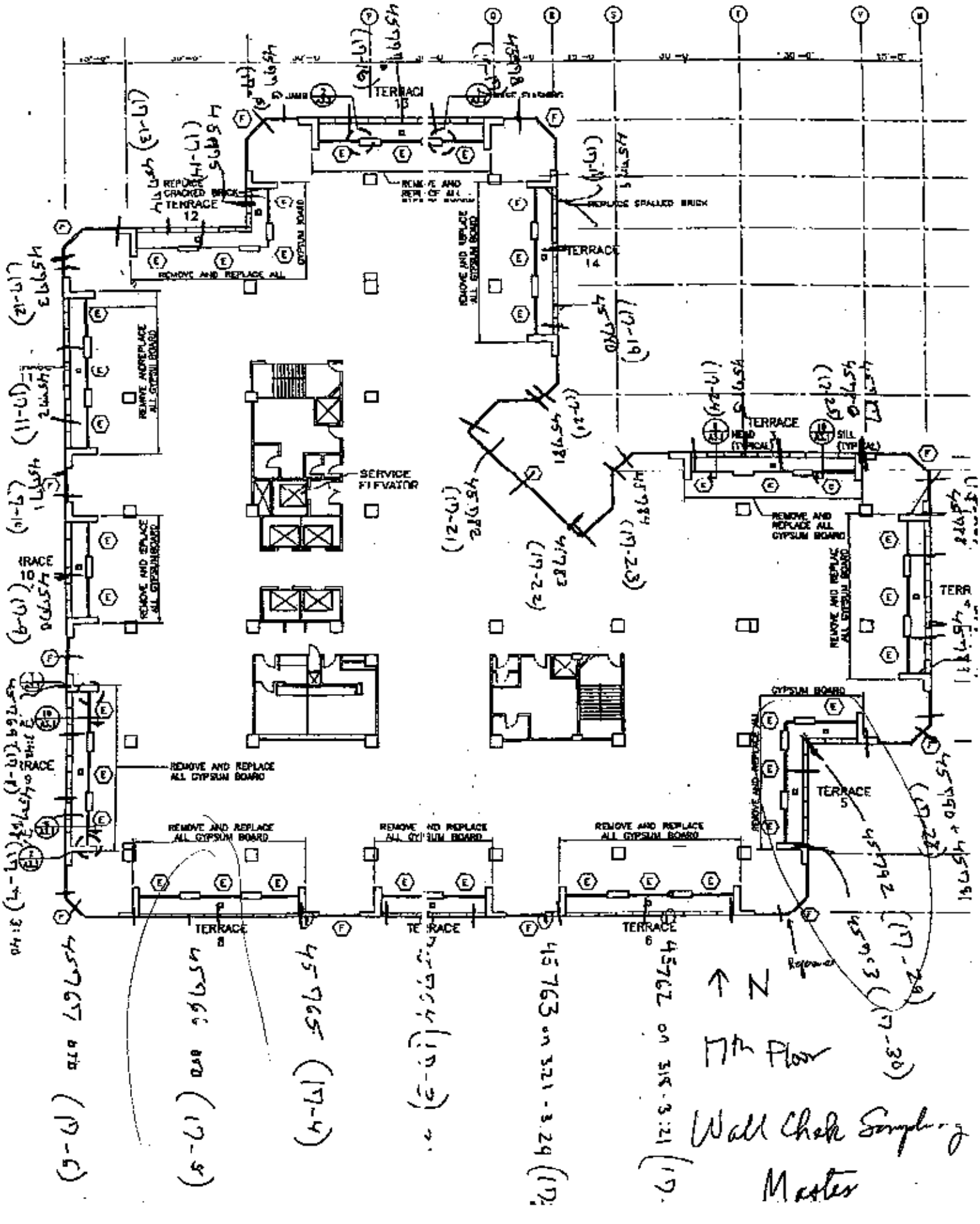


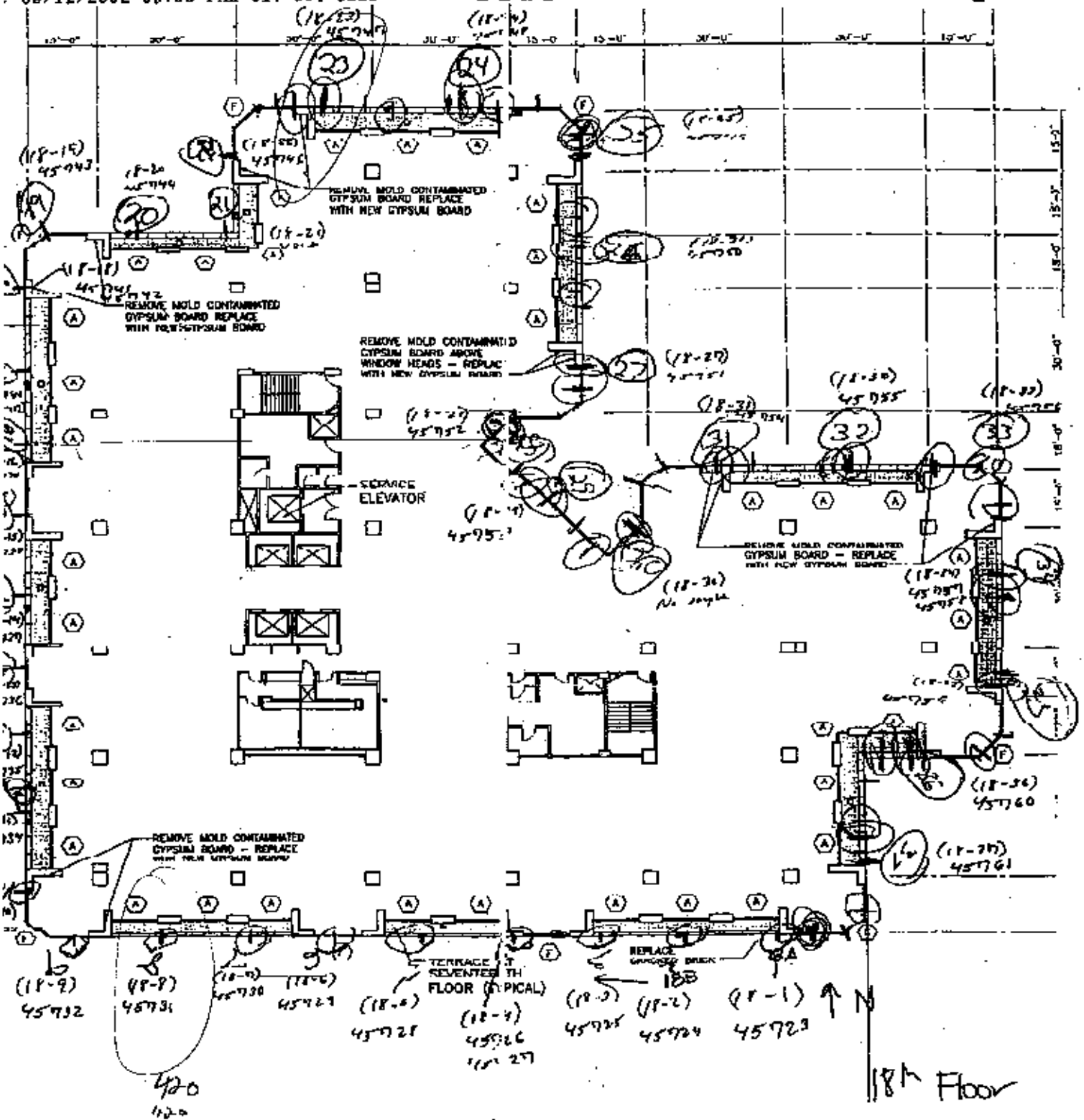
15TH Floor
Wall Chch Sampling
Master

09/11/2002 16:40 FAX 617 964 8556 E H & E 011



16TH FLOOR
Wall Check Sampling


TERRACE 13
REPLACE CRACKED BRICK
TERRACE 12
REMOVE AND REPLACE ALL GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
REPLACE SPALLED BRICK
TERRACE 14
REMOVE AND REPLACE ALL GYPSUM BOARD
SERVICE ELEVATOR
TERRACE
HEAD (TYPICAL)
SILL (TYPICAL)
REMOVE AND REPLACE ALL GYPSUM BOARD
TERRACE 10
REMOVE AND REPLACE ALL GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
GYPSUM BOARD
TERRACE 5
REMOVE AND REPLACE ALL GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
TERRACE 8
TERRACE 7
TERRACE 6
N
7th Floor
Wall Check Sampling
Master



18th Floor

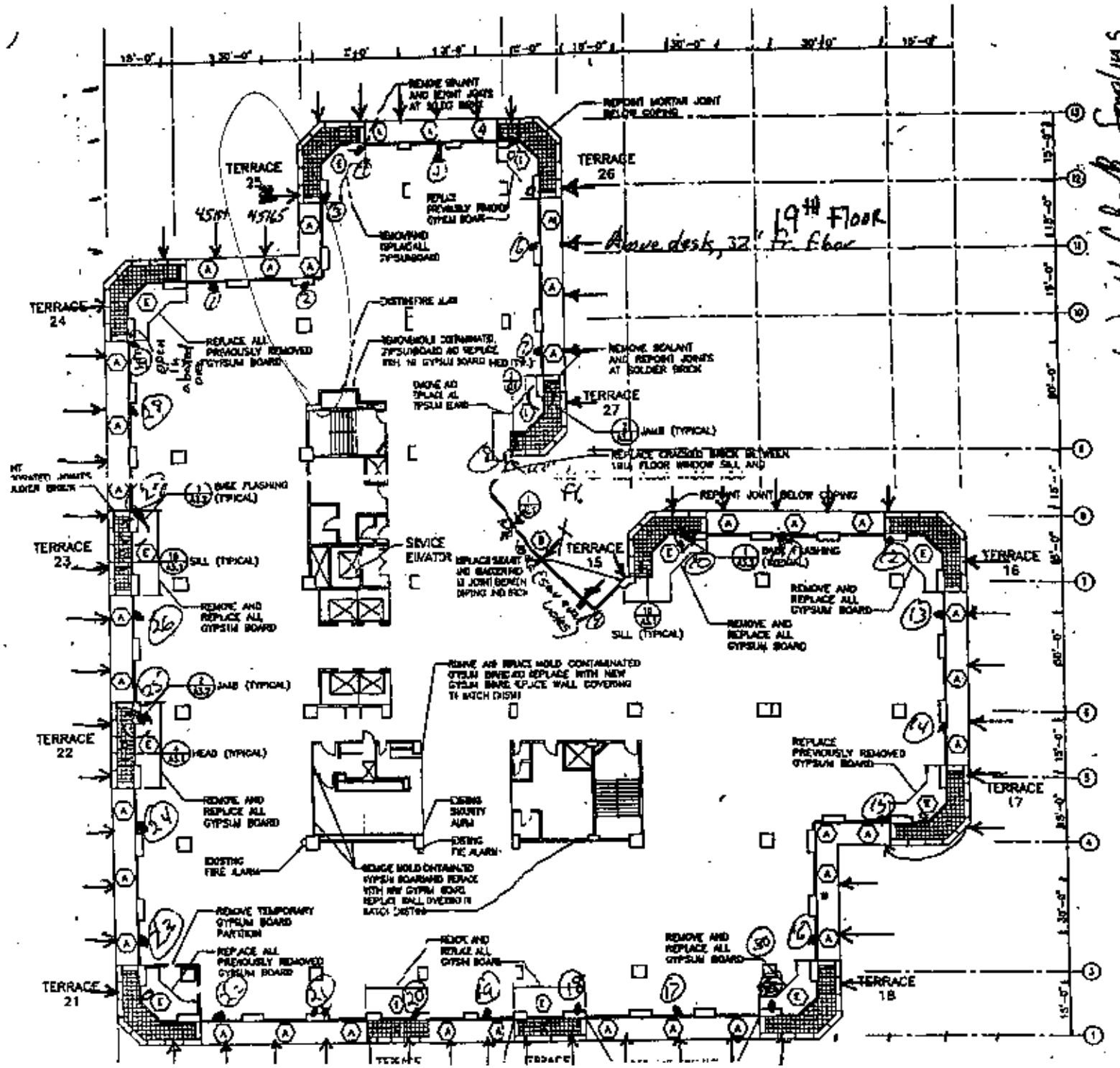
420
120
540

$\frac{25\frac{1}{8}}{60} \times 24'$

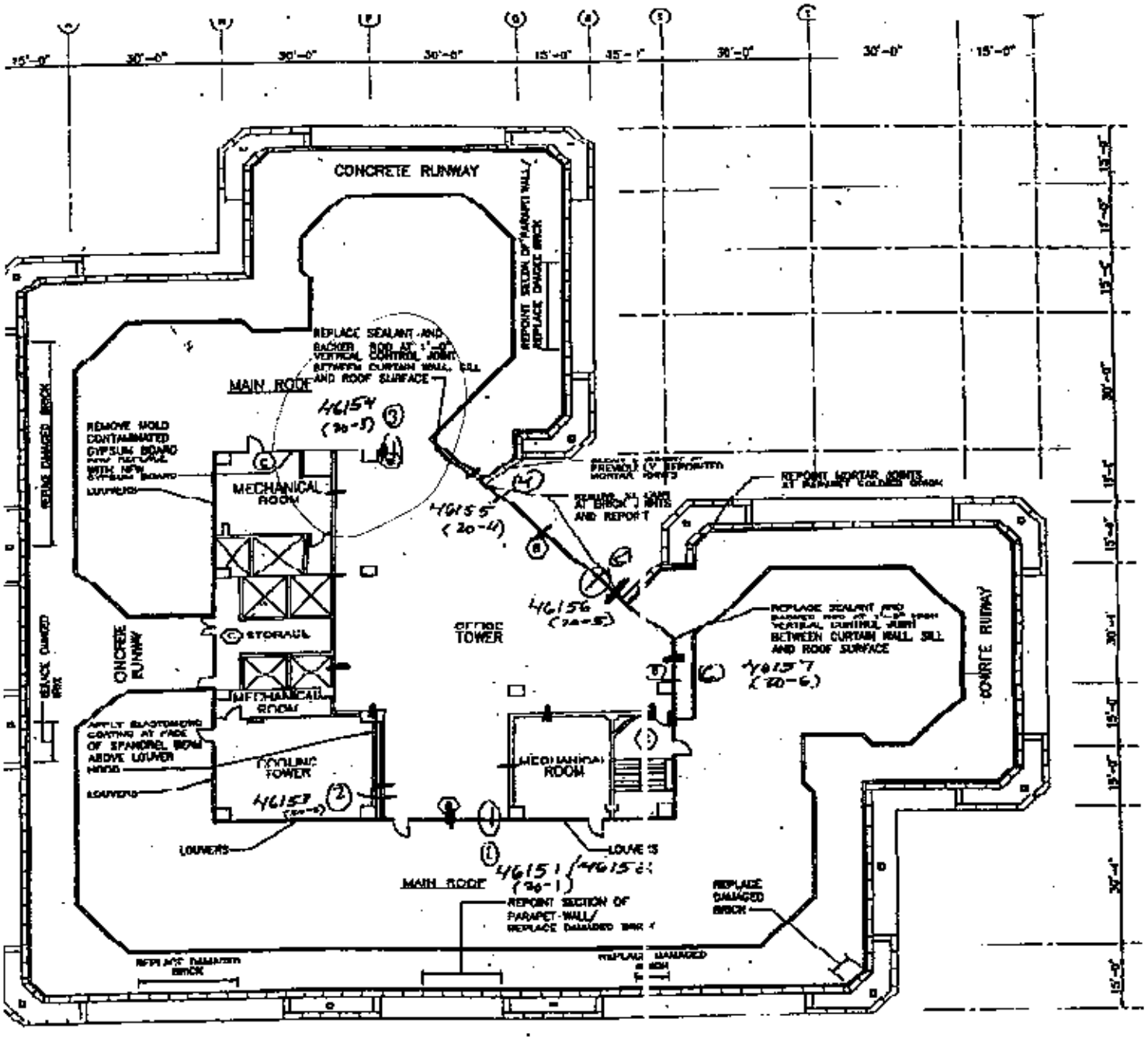
1.08 = 24'

1.28" = 28'

Wall Check Sampling
Master
18th FLOOR



TERRACE 25
TERRACE 26
TERRACE 24
TERRACE 27
TERRACE 23
TERRACE 15
TERRACE 16
TERRACE 22
TERRACE 17
TERRACE 21
TERRACE 18
REPOINT MORTAR JOINT BELOW COPING
REMOVE SEALANT AND REPOINT JOINTS AT SOLDIER BRICK
REPLACE PREVIOUSLY REMOVED GYPSUM BOARD
REMOVE AND REPLACE ALL GYPSUM BOARD
JAMB (TYPICAL)
SILL (TYPICAL)
HEAD (TYPICAL)
BASE FLASHING (TYPICAL)
SERVICE ELEVATOR
EXISTING FIRE ALARM
EXISTING SECURITY ALARM
REMOVE TEMPORARY GYPSUM BOARD PARTITION
19th Floor
Above desk, 32" Fr. Floor
Wall Check Sampling
Master
19th Floor



↑N

20th Floor

~~Master~~

Wall Chek Sampling

Master

09/11/2002 18:47 FAX 617 [illegible]