ADDENDUM NUMBER 1:
Issued: September 17, 2013
Bid #06-14
Water Treatment Plant Deconstruction and Demolition

This Addendum forms part of the original document marked: Water Treatment Plant Deconstruction and Demolition Bid # 06-14

The following questions have been asked and answered:

Regarding the Base Project at Madbury:

Q: Do the footings and foundations need to be totally removed?
Answer: No. The footings and the floor of the foundation need to be broken so that groundwater will pass through. The foundation walls need to be demolished to no less than two (2) feet below grade. Clean rubblized concrete or brick may be used to fill the foundation hole to the appropriate level.

Q: Can you use the crushed concrete generated on site for backfill purposes?
Answer: Yes. See above.

Q: Is there a specific concrete size we need to use when backfilling?
Answer: 2-5 inch pieces

Q: How far out beyond the site do the pipelines extend? Are we required to get rid of the pipes beyond the site location?
Answer: You do not have to remove any piping beyond the footprint of the building.

Q: Will barricades be required?
Answer: No, but you have to control access to the site such that passers-by can pass safely. The worksite and stand-off must be clearly marked.

Q: Can we have extended work hours?
Answer: Yes, but only as an exception, and you must request permission for extended hours form the DPW 24-hours in advance.

Q: What permits will firms be required to acquire?
Answer: Any permit necessary other than the building permit for demolition from the town of Madbury, which the DPW will acquire.

Regarding the Add Alternate Project at Pease:

Q: Can the carbon be disposed of in the land fill?
Answer: Yes

Q: If the carbon weighs more than 50-Thousand pounds how is it paid for? Is the weight based on dry weight?

Answer: If there is more (or different) material present within the tanks than anticipated, the added cost for removal of the material will be treated as a change order.

Q: Can we use the back garage door to remove material?
Answer: No. The building addition with the garage door must not be impacted during this project as operations will be on-going there.

Additionally, part of this addendum includes the following attachments:

- List of attendees from the pre-bid meeting
- Asbestos inspection
- Carbon lab data sheet
- Plan sets of Madbury

Please acknowledge this addendum within your proposal, failure to do so may subject a bidder to disqualification.
End of Addendum #1

Filter Building Demolition Project Pre-Bid Meeting – 9/10/13

Sign-In Sheet

NAME	FIRM	PHONE	EMAIL
Kristen Leighton	Shipyard Waste Solutions	207-400-0992	Kristen@shipyardwastesolutions.com
Travis Saucier	T. Buck Construction	207-783-6223 207-783-3970	travis@TBuckCon.net
Phil Trachier	One Source Environmental, LLC	(603) 425-9649	Phil @ ONESOURCENE.COM
Heath Todd	Apex Construction.	(603)330-3600	heath@apex-constructioninc.com
MARK FILION	BROWN INDUSTRIAL GROUP	207-698-5598	MARK @ BROWNINDUSTRIALGROUP.COM
Bryson Stockdale	Air Quality Experts	(603) 894-6465	bstockdale @ AQENH.Com
Don Lewis	~~AGI~~	603 498 1886	dlj @ abingtongroup.com.
Sean Bart	AGI	603 498 0073	smb@abingtongroup.com
DANA KILROY	NCM	857-266-3238	DKILROY @ NCMgroup.com

Filter Building Demolition Project Pre-Bid Meeting – 9/10/13

Sign-In Sheet

NAME	FIRM	PHONE	EMAIL
Rick Wickson	Wickson Construction/ Kinsmen Corp.	603-778-3100 cell# 978-423-4521	rwickson@wickson construction.com
Bryan Wickson	Wickson Const. Kinsmen Corp	603-778-3100 603-548-2037	BTwickson@gmail.com
Mike DiNard	Francesco Demolition	781-585-0210 781-934-5193	francesco25@Verizon.Net
Donna Olszak	All-Ways Wrecking	6037445090	allways@metrocast.net
Bob Morgan	Jay-Mor Enterprises	603-635-2183	JAYMOR ENT. @ comcast.net
Austin Connell	McConnell Fund	781 848 8071	mcc.braintree@verizon.net
Malcolm BRADSHER	M. BRADSHER CO INC	603-679-3888	CRUSHMOORE@gmail.com
Jason LaBranche	Green Environmental	603-292-3342	JLaBranche@greenenvironmental.com
Larry Rich	Renaud Truckers	207-384-5111	
Steve Frye	Shipyard Waste	207-439-5574	SFrye@shipyardwastesolutions.com

Accolade Environmental Contracting, Corp.
PO Box 1256, Plaistow, NH. 03865
Telephone (603) 608-6545 aeccorp@hotmail.com

October 3, 2011

Mr. Peter Rice
Portsmouth Water & Sewer Department
680 Peverly Hill Road
Portsmouth, NH 03081

RE: Asbestos testing @ 61 Freshet Road, Madbury, NH

Dear Mr. Rice,

As a representative of Accolade Environmental, NH asbestos inspector license # AI000322, we have collected samples of building materials suspect of containing asbestos materials at the above referenced property. Samples were collected September 26, 2011 and overnight delivered to Asbestos Identification Laboratory (License # AA 000208) 165U New Boston Road, Woburn, MA. 01801.
Scope of work was limited to the facilities building scheduled for demolition. Although aggressive sampling was performed no inspection can guarantee to uncover all suspect materials. If additional materials are discovered during demolition, (ie) behind walls, or under sub-flooring please contact me for further testing. The following results were obtained using the EPA/600/R-93-116 method of analyzes for the Determination of Asbestos in Bulk Building Materials or Products.

Asbestos material was detected in the following samples

#5 Cement wall board panels	**20% chrysotile asbestos**
#14 Cement exhaust pipe base-roof	**10% chrysotile asbestos**
	10% Crocidolite asbestos
#21 Exterior red paint on metal panel	**20% chrysotile asbestos**
Transite panels on laboratory hood	**assumed acm**

Materials with 1% or greater asbestos content must be handled in accordance with State, Federal and Local regulations pertaining to asbestos materials.
Please contact me if you require further information.

Sincerely,

Frank Kasabian. Vice-President. AEC, Corp.

See page 2 for quantities and estimated cost

Observed were approximately
73 light fixtures with mercury containing bulbs and ballast's which must be collect and properly disposed of.
8 AC units and 1-water cooler with CFC's (Freon) which requires collection and legal disposal. .

Cost estimates based on industrial standard pricing	
Transite wall panels (double sided) 2,000 sf @ $4.00 sf	$8,000.
Exterior metal panels with asbestos paint 1,200 sf @ $3,00 sf	$3,600.
Traniste exhaust pipe	$1,000.
Transite laboratory hood 1 $ $1,200.	$1,000.
NH DES Notification fee 1 @ $300.	$300.
Independent consultant for post abatement air testing	$600.
Lamps/ballast's 73 @ $15. Per fixture	$1,095.
CFC collect and recycle 9 units @ $50. Each	$450.

Total pre demolition abatement cost $16,045.
Excludes tank cleaning and motorized equipment with oils if applicable.

Asbestos Identification Laboratory
165U New Boston St., Ste 271
Woburn, MA 01801
Bulk Asbestos Analysis by Polarized Light Microscopy
EPA Method: 600/R-93/116

NVLAP®
Lab Code: 200919-0

Results Table

Sample ID	Lab ID	Material	Sample Location	Analytical Results
1	23950	Brown 12 inch floor tile	Second floor office	No Asbestos Detected
2	23951	Cove base mastic	Second floor office	No Asbestos Detected
3	23952	Joint compound/wallboard	Second floor office	No Asbestos Detected
4	23953	2 x 4 ceiling tile	Second floor office	No Asbestos Detected
5	23954	Cement wall board	Second floor top of stairs	Chrysotile=20%
6	23955	Cement board wall panel	Second floor partition wall	Chrysotile=20%
7	23956	Gray patterned floor tile	Second floor office left side	No Asbestos Detected
8	23957	Mud fitting insulation	L. room on fiberglass insulation pipe	No Asbestos Detected
9	23958	Roof tar	Upper roof	No Asbestos Detected
10	23959	Roof cement perimeter flashing	Upper roof	No Asbestos Detected
11	23960	Roof cement penetrations	Upper roof	No Asbestos Detected
12	23961	Roof tar	Lower roof	No Asbestos Detected
13	23962	Roof cement	Perimeter flashing lower roof	No Asbestos Detected
14	23963	Exhaust pipe	First through roof	Chrysotile=10% Crocidolite=10%
15	23964	12 inch beige VCT first-floor	First-floor	No Asbestos Detected
16	23965	Joint compound and wallboard composite	First floor office	No Asbestos Detected
17	23966	Window caulk	Frame to brick	No Asbestos Detected
18	23967	Exterior window glaze	Window glass	No Asbestos Detected
19	23968	Exterior window glaze	Window glass	No Asbestos Detected
20	23969	Exterior metal siding	Red exterior	No Asbestos Detected
21	23970	Paint red	Associated with #20	Chrysotile=20%

Asbestos Identification Laboratory
165U New Boston St., Ste 271
Woburn, MA. 01801
Bulk Asbestos Analysis by Polarized Light Microscopy
EPA Method: 600/R-93/116

NVLAP®
Lab Code: 200919-0

October 3, 2011

Accolade Environmental
P.O. Box 1256
Plaistow, NH 03865

Batch 1695

Dear Frank Kasabian:

The following correspondence contains two communications:

1. Results of Asbestos project: **60 Freshet Rd., Madbury, NH**
2. Billing Invoice.

The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration# PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations Department of Health Certification: AAL-121

Asbestos Identification Laboratory
165U New Boston St., Ste 271
Woburn, MA 01801
Bulk Asbestos Analysis by Polarized Light Microscopy
EPA Method: 600/R-93/116

NVLAP
Lab Code: 200919-0

Results for Client Project: 60 Freshet Rd., Madbury, NH, Batch# 1695

Work Received: 9/29/2011 Date Sampled: 9/28/2011 Results Sent: 10/3/2011 1:15:56 PM

Field_ID: 1 Material: Brown 12 inch floor tile Color: Tan Location: Second floor office Sample# 23950 NON=100 None Detected

Field_ID: 2 Material: Cove base mastic Color: Yellow Location: Second floor office Sample# 23951 NON=100 None Detected

Field_ID: 3 Material: Joint compound/wallboard Color: Multi Location: Second floor office Sample# 23952 CEL=020 NON=080 None Detected

Field_ID: 4 Material: 2 x 4 ceiling tile Color: Gray Location: Second floor office Sample# 23953 MNW=040 CEL=040 NON=020 None Detected

Field_ID: 5 Material: Cement wall board Color: Gray Location: Second floor top of stairs Sample# 23954 NON=080 ASBESTOS DETECTED CHR=020

Field_ID: 6 Material: Cement board wall panel Color: Gray Location: Second floor partition wall Sample# 23955 NON=080 ASBESTOS DETECTED CHR=020

Field_ID: 7 Material: Gray patterned floor tile Color: Multi Location: Second floor office left side Sample# 23956 NON=100 None Detected

Field_ID: 8 Material: Mud fitting insulation Color: Gray Location: L. room on fiberglass insulation pipe Sample# 23957 MNW=040 NON=060 None Detected

Field_ID: 9 Material: Roof tar Color: Black Location: Upper roof Sample# 23958 CEL=025 NON=075 None Detected

Field_ID: 10 Material: Roof cement perimeter flashing Color: Black Location: Upper roof Sample# 23959 NON=100 None Detected

Field_ID: 11 Material: Roof cement penetrations Color: Black Location: Upper roof Sample# 23960 NON=100 None Detected

Field_ID: 12 Material: Roof tar Color: Black Location: Lower roof Sample# 23961 CEL=030 NON=070 None Detected

Field_ID: 13 Material: Roof cement Color: Black Location: Perimeter flashing lower roof Sample# 23962 CEL=020 NON=080 None Detected

Field_ID: 14 Material: Exhaust pipe Color: Gray Location: First through roof Sample# 23963 NON=080 ASBESTOS DETECTED CHR=010 CRO=010

Field_ID: 15 Material: 12 inch beige VCT first-floor Color: Multi Location: First-floor Sample# 23964 NON=100 None Detected

Field_ID: 16 Material: Joint compound and wallboard composite Color: Multi Location: First floor office Sample# 23965 CEL=020 NON=080 None Detected

Field_ID: 17 Material: Window caulk Color: Black Location: Frame to brick Sample# 23966 NON=100 None Detected

Field_ID: 18 Material: Exterior window glaze Color: Gray Location: Window glass Sample# 23967 NON=100 None Detected

Field_ID: 19 Material: Exterior window glaze Color: Gray Location: Window glass Sample# 23968 NON=100 None Detected

Field_ID: 20 Material: Exterior metal siding Color: Gray Location: Red exterior Sample# 23969 NON=100 None Detected

Field_ID: 21 Material: Paint red Color: Red Location: Associated with #20 Sample# 23970 NON=080 ASBESTOS DETECTED CHR=020

End of Report

Legend (All sample results represent percentages EX: 001 = 1%) TR(Trace) = < 1%
Asbestos Minerals: Chrysotile=CHR, Amosite=AMO, Crocidolite=CRO, Actinolite=ACT, Tremolite=TRE, Anthophylite=ANT
Fibrous Materials: Fiberglass=FBG, Mineral Wood=MNW, Cellulose=CEL, Hair=HAR, Synthetic=SYN, Other=OTH, Non-Fibrous=NON

Accolade

P O Box 1256
Plaistow, NH 03865

Invoice

Date	Invoice #
10/3/2011	2076

Bill To
Portsmouth Water & Sewer Dept. 680 Peverly Hill Road Portsmouth, NH 03801

JOB NUMBER/PO #

Description	Amount
61 Freshet Road, Madbury, NH. Collect samples of building materials suspect to contain asbestos. Provide analytical from an accredited laboratory. Price includes written report.	950.00
Thank you for your business.	**Total** $950.00

Phone #	Fax #
603-608-6545	603-642-6179

Accolade Environmental Contracting, Corp.
PO Box 1256, Plaistow, NH. 03865
Telephone (603) 608-6545 aeccorp@hotmail.com

PROPOSAL

Proposal submitted to:
Mr. Peter Rice
Portsmouth Water & Sewer Department
680 Peverly Hill Road
Portsmouth, NH 03081
Telephone (603) 766 1416 *phrice@cityofportsmouth.com*

Project Name / Location:
61 Freshette Road
Madbury, MA
October 3, 2011

Accolade is pleased to offer this proposal for the above referenced property.
Proper removal and disposal of all asbestos materials as identified in provided asbestos report. Price includes NH DES Notification and cost of independent consultant for post abatement testing services.
Asbestos $10,900.
Collection of lamps/ballst's $800.
Collection of CFC's $400.
Total cost of this proposal $12,100.

All work to be performed in compliance with all Local, State and Federal regulations
We propose to furnish equipment, material and labor to complete in accordance w/ the above specifications, for the sum of as specified above. Proposal valid for 30 days
Payment to be made as follows: Net 5

Interest charge of 2% per month will be charged on all outstanding balances.
All materials guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alternations or deviations from above specifications involving extra cost will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Owner agrees to pay all costs associated with collection. Our work force fully covered by Workers Compensation insurance.

AEC, Corp.
Authorized Signature: _____

CUSTOMER SIGNATURE: _____
This signature authorizes work as specified. Payment as outlined above.

Form **W-9**
(Rev. December 1996)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do NOT send to the IRS.

Please print or type

Name (If a joint account or you changed your name, see **Specific Instructions** on page 2.)
ACCLADE ENVIRONMENTAL CONTRACTING, CORP

Business name, if different from above. (See **Specific Instructions** on page 2.)
—

Check appropriate box: ☐ Individual/Sole proprietor ☒ Corporation ☐ Partnership ☐ Other ▶

Address (number, street, and apt. or suite no.)
PO BOX 1256

City, state, and ZIP code
PLAISTOW NH 03865

Requester's name and address (optional)

List account number(s) here (optional)

Part I **Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. For individuals, this is your social security number (SSN). However, if you are a resident alien OR a sole proprietor, see the instructions on page 2. For other entities, it is your employer identification number (EIN). If you do not have a number, see **How To Get a TIN** on page 2.

Note: *If the account is in more than one name, see the chart on page 2 for guidelines on whose number to enter.*

Social security number
| | | | | | | | | |

OR

Employer identification number
2 2 3 8 9 4 0 6 9

Part II **For Payees Exempt From Backup Withholding** (See the instructions on page 2.)

▶

Part III **Certification**

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: **(a)** I am exempt from backup withholding, or **(b)** I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or **(c)** the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions.—You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 2.)

Sign Here Signature ▶ [signature] Date ▶ 3/3/96

Purpose of Form.—A person who is required to file an information return with the IRS must get your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 to give your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are an exempt payee.

Note: *If a requester gives you a form other than a W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.*

What Is Backup Withholding?—Persons making certain payments to you must withhold and pay to the IRS 31% of such payments under certain conditions. This is called "backup withholding." Payments that may be subject to backup withholding include interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

If you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return, payments you receive will not be subject to backup withholding. Payments you receive **will** be subject to backup withholding if:

1. You do not furnish your TIN to the requester, or
2. The IRS tells the requester that you furnished an incorrect TIN, or
3. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
4. You do not certify to the requester that you are not subject to backup withholding under 3 above (for reportable interest and dividend accounts opened after 1983 only), or
5. You do not certify your TIN when required. See the Part III instructions on page 2 for details.

Certain payees and payments are exempt from backup withholding. See the Part II instructions and the separate **Instructions for the Requester of Form W-9.**

Penalties

Failure To Furnish TIN.—If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil Penalty for False Information With Respect to Withholding.—If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal Penalty for Falsifying Information.—Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs.—If the requester discloses or uses TINs in violation of Federal law, the requester may be subject to civil and criminal penalties.

Cyn Environmental Services Analytical Laboratory

Customer: City of Portsmouth
Location: Portsmouth, NH
Lab Number: 09012716
Sample ID: 23075
Sampled By: ES
Sample Matrix: Non Hazardous Solid

Job Number: DOV23075
Waste Code: MA99
Sample Date: 7/19/2013
Receipt Date: 7/22/2013
Analysis Date: 7/23/2013
Report Date: 7/24/2013

HAZ-SCAN SOLID

Method	Analyte	Result	RL	AL	Units
Inorganics					
Closed Cup	Flashpoint	>140	140	>100 / >140	°F
Electrode	pH	6.8	N/A	>2 / <12.5	pH
Spot Test	Cyanides	ND	.5	Compatible	mg/Kg or mg/L
Spot Test	Sulfides	ND	5	Compatible	mg/Kg or mg/L
Organics					
GC/ECD	Polychlorinated Biphenyls	ND	2	<50	mg/Kg
HdSp/PID/FID/HECD	1,1,1-Trichororethane	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	1,1,2-Trichloroethane	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	1,1-Dichloroethene	ND	0.5	<14	mg/Kg
HdSp/PID/FID/HECD	1,2-Dichloroethane	ND	0.5	<10	mg/Kg
HdSp/PID/FID/HECD	1,2-Dichlorobenzene	ND	0.5	<150	mg/Kg
HdSp/PID/FID/HECD	1,4-Dichlorobenzene	ND	0.5	<150	mg/Kg
HdSp/PID/FID/HECD	Acetone	ND	5.0	N/A	mg/Kg
HdSp/PID/FID/HECD	Benzene	ND	0.5	<10	mg/Kg
HdSp/PID/FID/HECD	Carbon Tetrachloride	ND	0.5	<10	mg/Kg
HdSp/PID/FID/HECD	Chlorobenzene	ND	0.5	<2000	mg/Kg
HdSp/PID/FID/HECD	Chloroform	ND	0.5	<120	mg/Kg
HdSp/PID/FID/HECD	Ethylbenzene	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Freon 113	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Methylene Chloride	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Methyl Ethyl Ketone	ND	5.0	<4000	mg/Kg
HdSp/PID/FID/HECD	Methyl Isobutyl Ketone	ND	5.0	N/A	mg/Kg
HdSp/PID/FID/HECD	Tetrachloroethylene	ND	0.5	<14	mg/Kg
HdSp/PID/FID/HECD	Toluene	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Trichloroethylene	ND	0.5	<10	mg/Kg
HdSp/PID/FID/HECD	Trichlorofluoromethane	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Vinyl Chloride	ND	0.5	<4	mg/Kg
HdSp/PID/FID/HECD	Xylene (total)	ND	0.5	N/A	mg/Kg
HdSp/PID/FID/HECD	Methanol	ND	1.0	N/A	% w/w
Metals					
X-ray Fluorescence	Total Lead	ND	2.0	<100	mg/Kg
X-ray Fluorescence	Total Chromium	7.3	1.0	<100	mg/Kg
X-ray Fluorescence	Total Arsenic	3.0	1.0	<100	mg/Kg
X-ray Fluorescence	Total Cadmium	ND	1.0	<20	mg/Kg
X-ray Fluorescence	Total Mercury	ND	1.0	<4.0	mg/Kg
X-ray Fluorescence	Total Barium	64	9.0	<2000	mg/Kg
X-ray Fluorescence	Total Selenium	1.6	1.0	<20	mg/Kg
X-ray Fluorescence	Total Silver	ND	1.0	<100	mg/Kg
X-ray Fluorescence	**TCLP Lead**	N/A	0.5	5.0	mg/L
X-ray Fluorescence	**TCLP Chromium**	N/A	0.5	5.0	mg/L
X-ray Fluorescence	**TCLP Arsenic**	N/A	0.5	5.0	mg/L
X-ray Fluorescence	**TCLP Cadmium**	N/A	0.5	1.0	mg/L
X-ray Fluorescence	**TCLP Mercury**	N/A	0.2	0.2	mg/L
X-ray Fluorescence	**TCLP Barium**	N/A	10	100.0	mg/L
X-ray Fluorescence	**TCLP Selenium**	N/A	0.5	1.0	mg/L
X-ray Fluorescence	**TCLP Silver**	N/A	0.5	5.0	mg/L

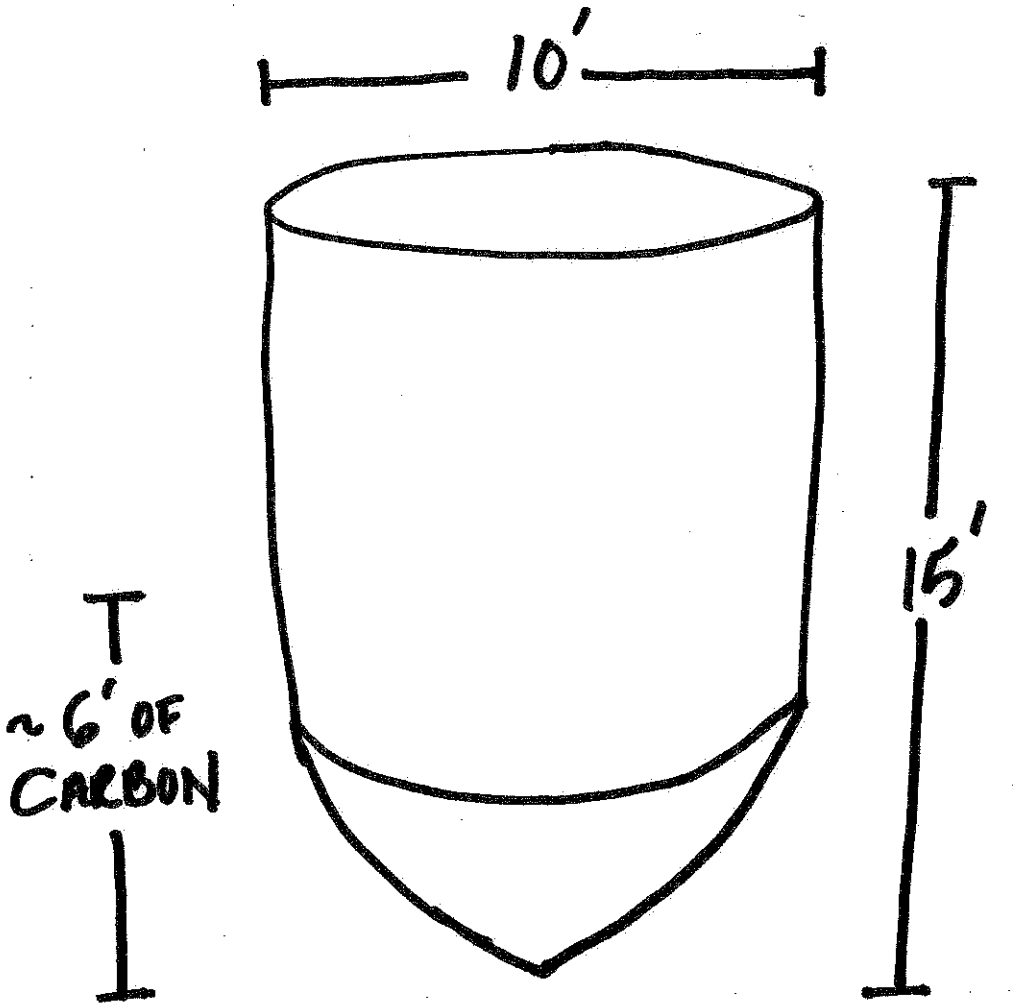
* TCLP takes precedence
AL = Facility Acceptance Limit
N/A = Not Applicable
ND = Not Detected ABOVE Reporting Limit
RL = Laborarory Reporting Limit

Notes: None.

Submitted By: 07/24/13

Approved By: 07/24/13

P.O. Box 0119 · 1771 WASHINGTON STREET · STOUGHTON, MA 02072-0119 · TELEPHONE 781.341.5108 · FAX 781.344.3318
TOLL FREE 1.800.899.1038



6 GRANULAR ACTIVATED CARBON TANK

TANK MATERIAL: 516 GRADE 70 CARBON STEEL

VOLUME: APPROXIMATELY 9,125 GALLONS PER TANK

ESTIMATED VOLUME OF CARBON: 8,350 lbs. PER TANK

CORPS OF ENGINEERS

U. S. AF

WINDOW SCHEDULE								
No.	SIZE	MATERIAL	TYPE	SASH	HEAD	JAMB	SILL	GLASS	REMARKS
1-9	4'-0" x 4'-1"	ALUMINUM	A	ALUM.	SEE DET. SH. G & T			CLEAR	
10-20	3'-0⅞" x 4'-1"	ALUMINUM	A	ALUM.	SEE DET. SH. G & T			CLEAR	
21-44	3'-0⅞" x 2'-9"	ALUMINUM	B	ALUM.	SEE DET. SH. G & T			CLEAR	
45-48	3'-0⅞" x 2'-1"	ALUMINUM	A	ALUM.	SEE DET. SH. G & T			CLEAR	
49-63	3'-4⅜" x 1'-5"	ALUMINUM	C	ALUM.	SEE DET. SH. G & T			CLEAR	MECH. OPERATOR
64-66	4'-0⅜" x 1'-5"	ALUMINUM	C	ALUM.	SEE DET. SH. G & T			CLEAR	MECH. OPERATOR
67-71	3'-8⅜" x 1'-5"	ALUMINUM	C	ALUM.	SEE DET. SH. G & T			CLEAR	MECH. OPERATOR
72-74	4'-0⅜" x 1'-5"	ALUMINUM	C	ALUM.	SEE DET. SH. G & T			CLEAR	MECH. OPERATOR

TYPE A TYPE B TYPE C

TYPES OF WINDOWS

BASEMENT PLAN

FIRST FLOOR PLAN

SECOND FLOOR PLAN

HIGH ROOF PLAN

NOTE: ALL WASH JOINTS IN CONCRETE SILLS SHALL BE RAKED & CAULKED

NORTH WINDOWS FILTER BM WINDOWS LOUVERS

DOOR No. 3 DOOR No. 2

EXTERIOR PRECAST CONCRETE LINTEL

NORTH ELEVATION

SOUTH ELEVATION

EAST ELEVATION

WEST ELEVATION

REVISION	DATE	DESCRIPTION	
A	9-11-61	ALUM LINE RELOCATED (F.C.)	
A	2-21-61	LADDERS RELOCATED (F.C.)	
A	12-14-60	HIGH ROOF PLAN & ELEVATIONS REVISED, LADDER RELOC. DWG CHANGED	
A	9-14-60	FILTER BUILDING LINES MODIFIED (ADD. NO. 2)	

Record Drawing
Contract No. DA-19-016-ENG-6199

4-17-61 FINAL FIELD CORRECTIONS

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

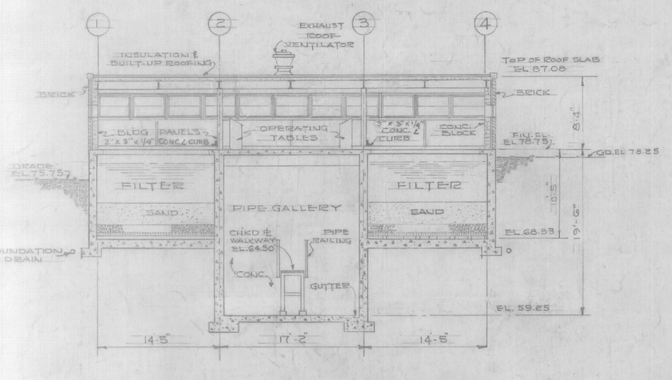
CORPS OF ENGINEERS, U.S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: G.E.P., C.G.M.
TRACED BY:
CHECKED BY: H.E.P.
SUBMITTED:
APPROVED:
APPROVED:
DATE: JUNE, 1959

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
PLANS, ELEVATIONS & DETAILS

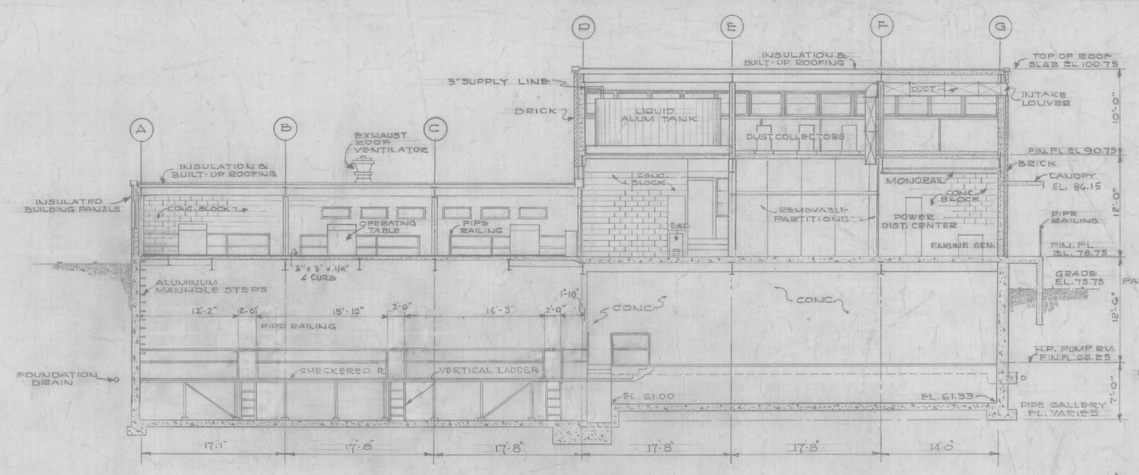
SCALE: 1/8" = 1'-0" SPEC. NO.
DRAWING NUMBER AW 78-05-51
SHEET

ARMY-Rudolf Blue Print Co., Boston, Mass.



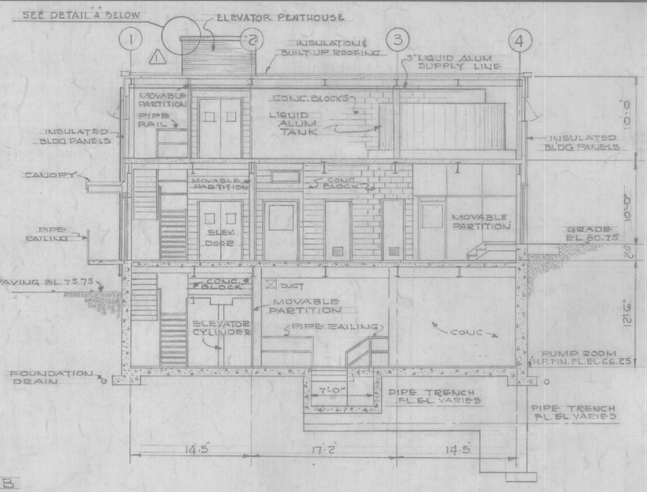
SECTION A-A

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



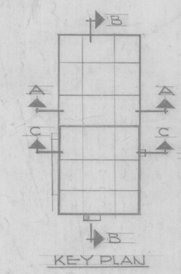
SECTION B-B

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

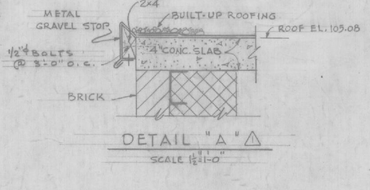


SECTION C-C

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

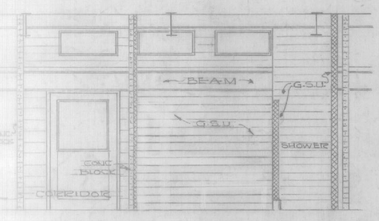


KEY PLAN

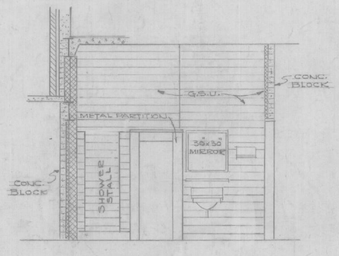


DETAIL "A"

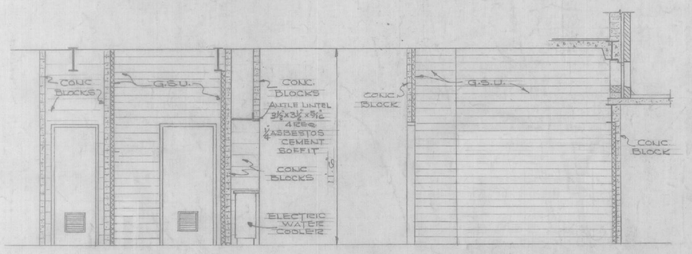
SCALE 1 1/2" = 1'-0"



SECTION X-X

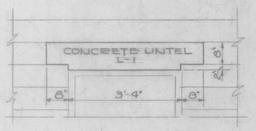


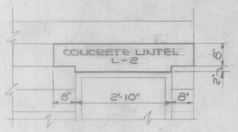
SECTION W-W

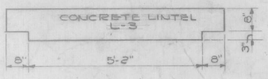


SECTION Z-Z

SECTION Y-Y

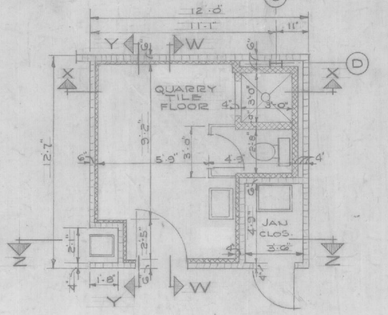






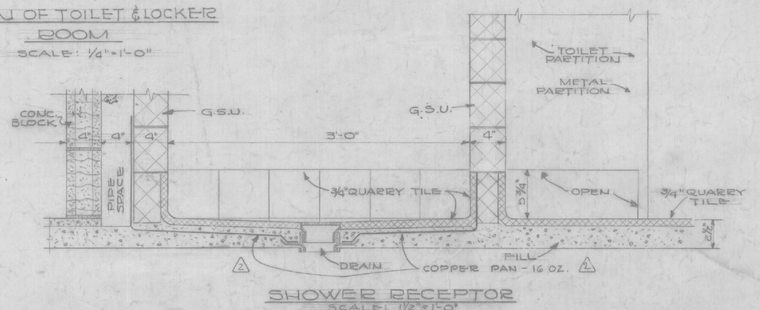
LINTEL DETAILS

SCALE: 1/2" = 1'-0"



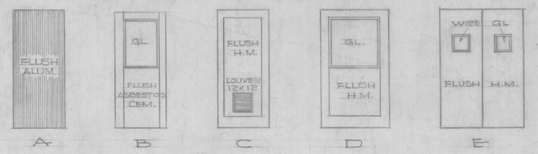
PLAN OF TOILET & LOCKER ROOM

SCALE: 1/4" = 1'-0"

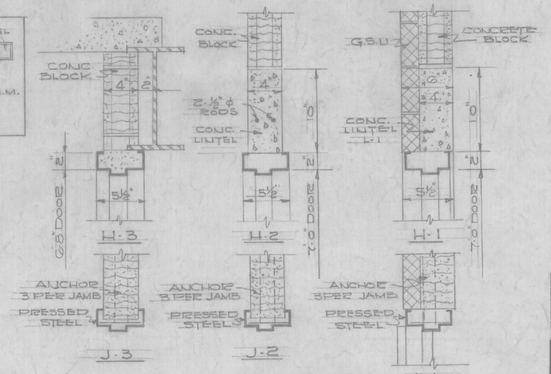


SHOWER RECEPTOR

SCALE: 1 1/2" = 1'-0"



TYPE OF DOORS



DOOR DETAILS

SCALE: 1/2" = 1'-0"

NOTE:
PROVIDE JOINT REINFORCEMENT IN BLOCK WALLS AT ALL OPENINGS. FIRST JOINT OVER LINTEL. FIRST TWO JOINTS UNDER ALL SILLS. REINFORCEMENT SHALL TERMINATE 2'-0" BEYOND JAMBS.

Record Drawing
Contract No. DA-19-016-ENG-6199

DOOR SCHEDULE

No.	SIZE	MATERIAL	TYPE	FRAME	HEAD	JAMB	SILL	GLASS	REMARKS
1	2'-11" x 6'-10" x 1¾"	ASBESTOS-CEM	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
2	4'-0" x 7'-0" x 1¾"	ALUMINUM	A	ALUM.	SEE DETAILS SHT. 7			NONE	
3	3'-0" x 7'-0" x 1¾"	ALUMINUM	A	ALUM.	SEE DETAILS SHT. 7			NONE	
4									
5	2-3'-0" x 7'-0" x 1¾"	ALUMINUM	A	ALUM.	SEE DETAILS SHT. 7			NONE	
6									
7	4'-0" x 6'-8" x 1¾"	HOLLOW METAL	D	STEEL	H-3	J-3	S-2	CLEAR	
8	3'-0" x 7'-0" x 1¾"	HOLLOW METAL	C	STEEL	H-1	J-1	S-1	NONE	CONC. LINTEL L-1
9	2'-6" x 7'-0" x 1¾"	HOLLOW METAL	C	STEEL	H-2	J-2	S-2	NONE	CONC. LINTEL L-2
10	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
11	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
12	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
13	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
14	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	4" C.I. THRESHOLD
15	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
16	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8
17	2-2'-6" x 7'-0" x 1¾"	HOLLOW METAL	E	STEEL	SEE DETAIL SHT.			WIRE	CONC. LINTEL L-3
18	2-2'-6" x 7'-0" x 1¾"	HOLLOW METAL	E	STEEL	SEE DETAIL SHT.			WIRE	CONC. LINTEL L-3
19	2'-11" x 6'-10" x 1¾"	ASBESTOS CEM.	B	WOOD	FOR MOVABLE PARTITION			CLEAR	SEE DETAIL SHT. 8

INTERIOR FINISH SCHEDULE

AREA	FLOOR FIN.	FLOOR FILL	BASE	WALLS	DADO	CEILING	REMARKS
PIPE GALLERY	NONE	5" MAX.	NONE				
PUMP ROOM	1" CONC. FL. FIN.	5" MAX.	NONE	RUBBED CONC.		EXPOSED	
B'SMT STAIRWELL	1" CONC. FL. FIN.	5" MAX.	NONE	MOVABLE PART.		EXPOSED	
ENTRY	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLOCK, MOVABLE PART.		EXPOSED	
CORRIDOR	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLOCK, MOVABLE PART.		EXPOSED	
CHLORINATOR RM.	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLOCK & STUD PART.		EXPOSED	
OFFICE & LAB	VINYL PLASTIC TILE	2½" FOR CONDUIT	COVE G.S.U.	G.S.U. MOVABLE PART.		EXPOSED	
ELECTRICAL RM.	1" CONC. FL. FIN.	2½" FOR CONDUIT	CONC. FIN.	CONC. BLK., PANELS MOVABLE PART.		EXPOSED	
CHEM. FEED RM.	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLOCK, PANELS MOVABLE PART.		EXPOSED	
STORAGE RM.	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	MOVABLE PART.		EXPOSED	
TOILET & LOCKER RM.	4"x4"x¾" QUARRY TILE	2½" FOR CONDUIT	COVE G.S.U.	G.S.U.		EXPOSED	QUARRY TILE SHOWER RECEPTOR
SHOP	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLK. PANELS MOVABLE PART		EXPOSED	
JANITOR'S CLOSET	1" CONC. FL. FIN.	2½" FOR CONDUIT	NONE	CONC. BLOCK		EXPOSED	
OPERATING GALLERY	1" CONC. FL. FIN.	NONE	CONC. FIN.	CONC. BLOCK, PANELS		EXPOSED	
2ND FL. STAIRWELL	1" CONC. FL. FIN.	NONE	CONC. FIN.	CONC. BLK. PANELS MOVABLE PART.		EXPOSED	
CHEM. STORAGE	1" CONC. FL. FIN.	NONE	CONC. FIN.	CONC. BLOCK PANELS		EXPOSED	

REVISION	DATE	DESCRIPTION	BY
4	10-4-61	Final Field Corrections.	
3	3-30-60	Shower Receptor revised (F.C.)	
2	12-14-59	Section C-C revised; detail 'A' added.	

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

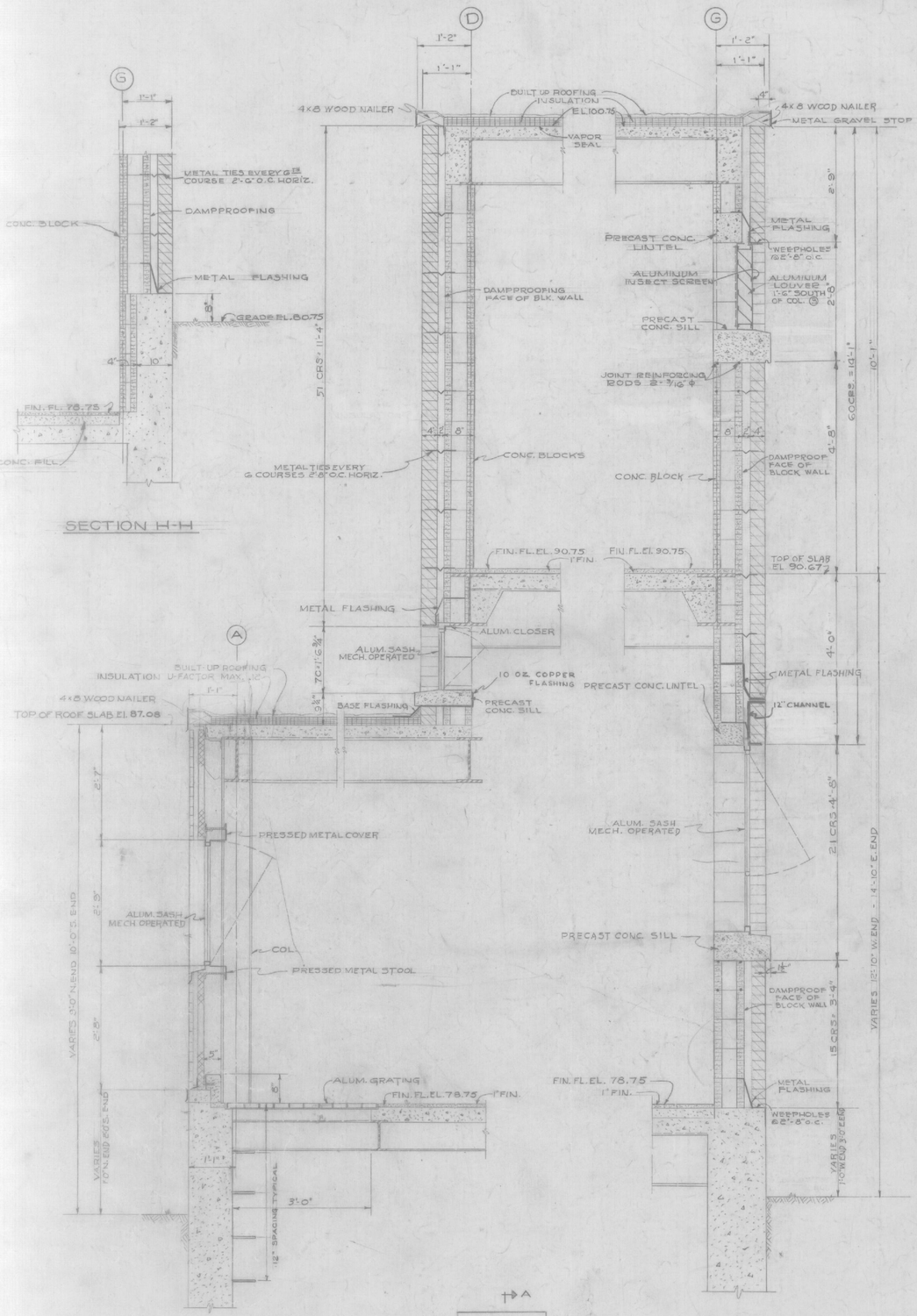
CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: B.E.P.
TRACED BY:
CHECKED BY: C.G.M.
SUBMITTED:

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
SECTIONS, DETAILS & SCHEDULES

APPROVED: Lorin Wm. Leslie, Jr. CHIEF ENGINEERING DIVISION
APPROVED: Raymond A. Pilcher COL. CE DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959

SCALE AS NOTED
SPEC NO. DA-19-016-ENG-139
DRAWING NUMBER AW71-05-31
SHEET 5



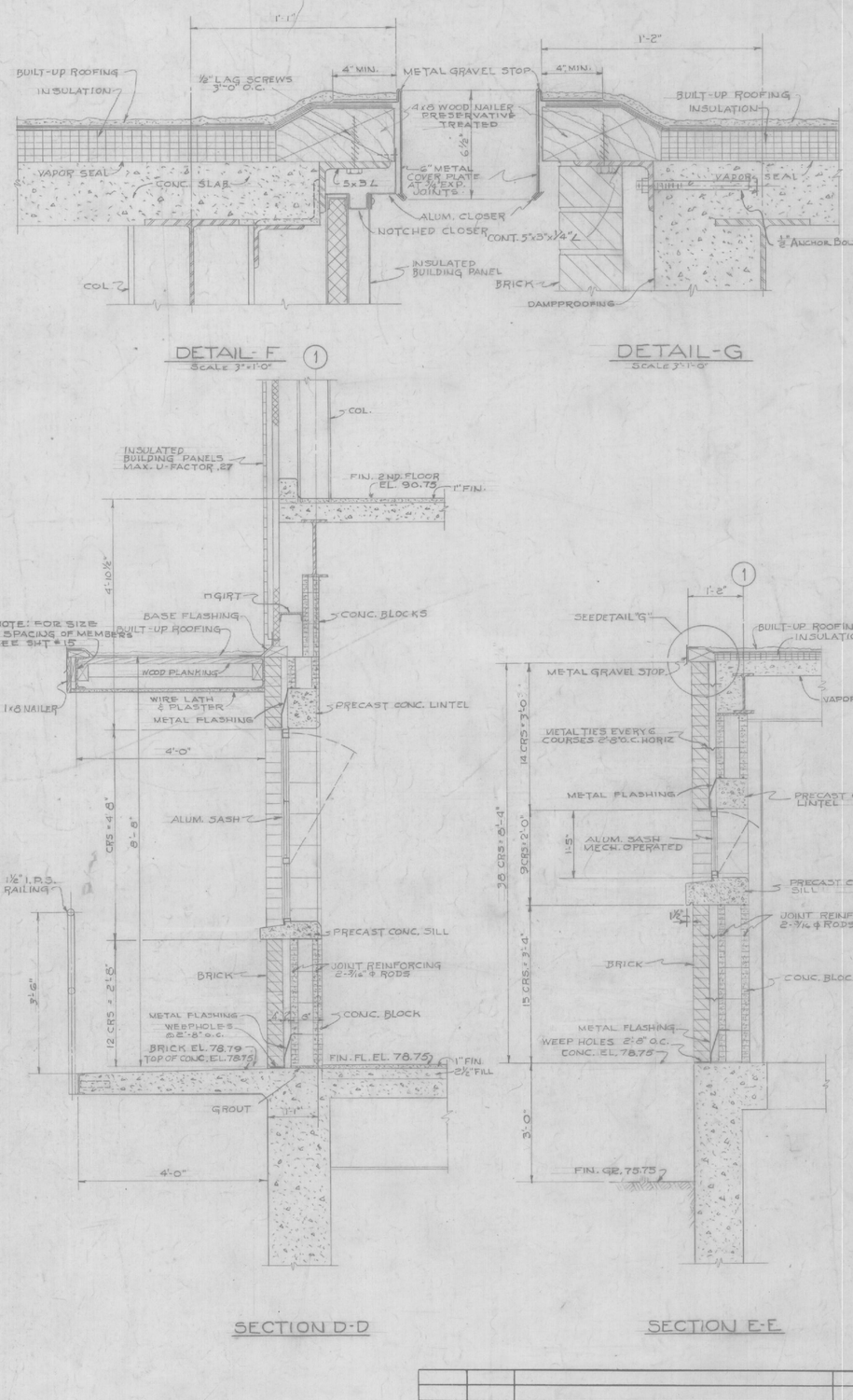
SECTION H-H

SECTION A-A

SECTION B-B

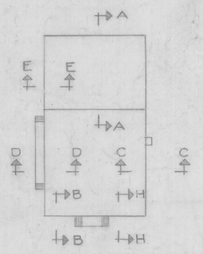
SECTION C-C

NOTE:
The base flashing on the low roof at the intersection of the high wall shall be 1003 copper thru wall. Copper pans will be provided at the sill for the three windows.



SECTION D-D

SECTION E-E



KEY PLAN

REVISION	DATE	DESCRIPTION	BY
	10-4-61	FINAL FIELD CORRECTIONS.	

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U.S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

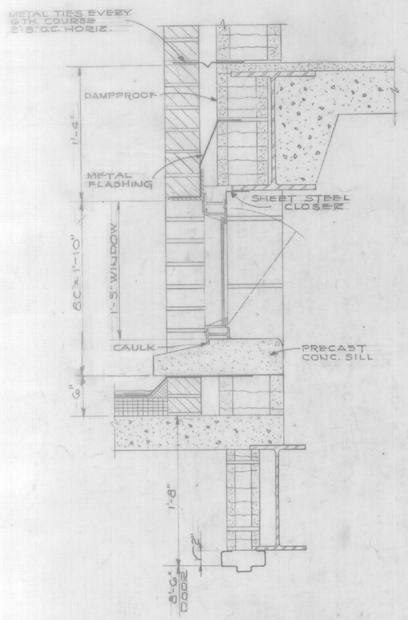
DRAWN BY: CGM
TRACED BY:
CHECKED BY: H.P.P.
SUBMITTED: Harold D. Howe

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
WALL SECTIONS

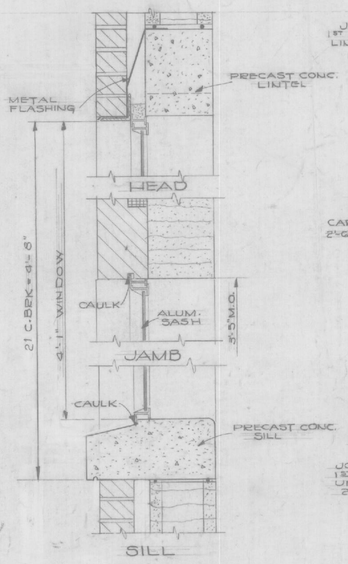
APPROVED: Smith Ladin, CHIEF ENGINEERING DIVISION
APPROVED: Raymond A. Seibert, COL., C.E. DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959

SCALE: ½" = 1'-0" OR AS NOTED
SPEC. NO. NAE-DIG-59-102
DRAWING NUMBER: AW71-05-31
SHEET 6

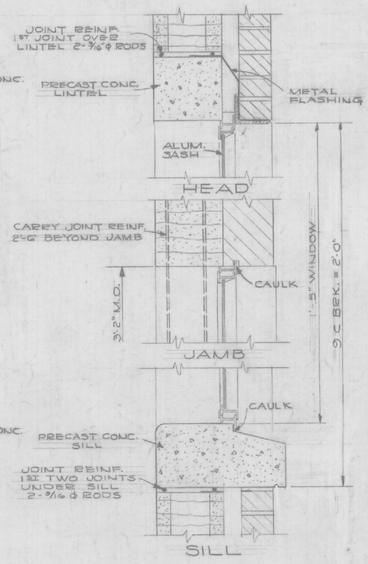
Record Drawing
Contract No. DA-19-016-ENG-6199



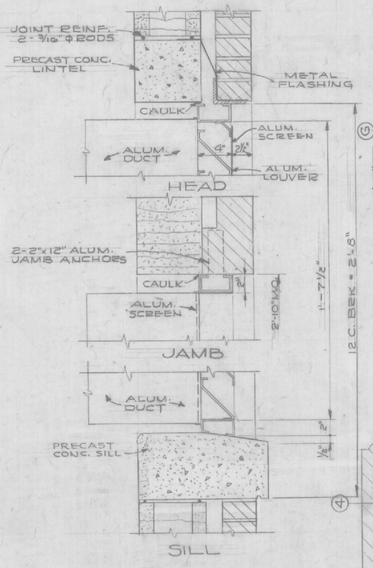
TOILET & CORRIDOR WINDOW DETAILS



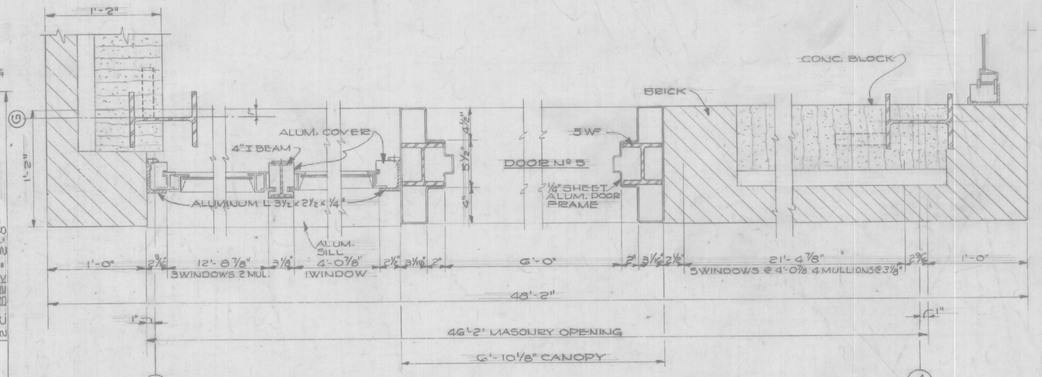
EAST WINDOW DETAILS



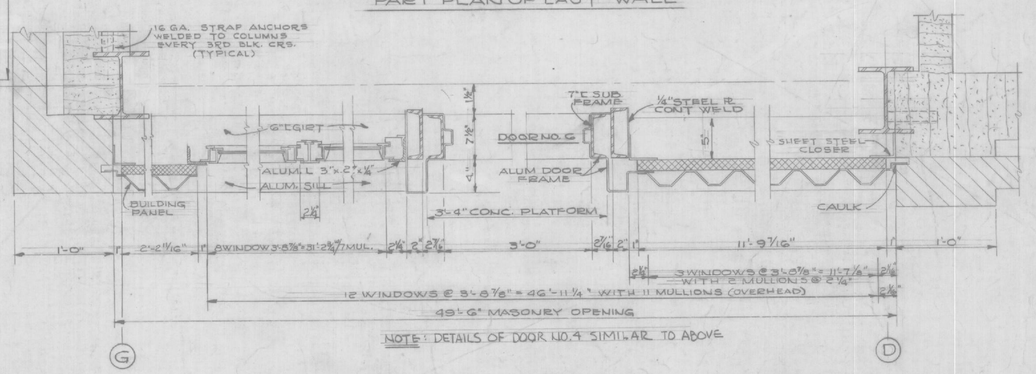
FILTER ROOM WINDOW DETAILS



LOUVER DETAIL

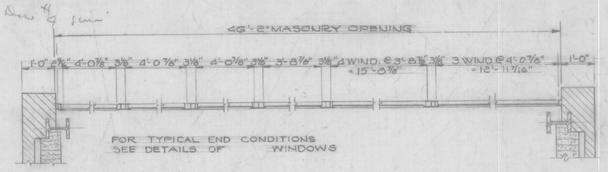


PART PLAN OF EAST WALL

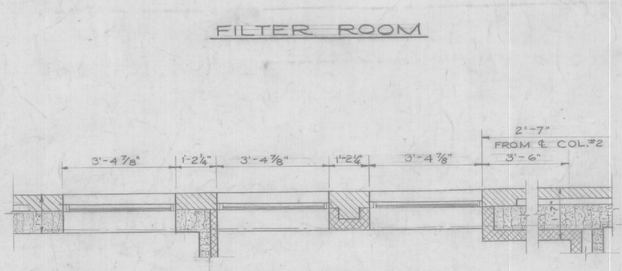


NOTE: DETAILS OF DOOR NO.4 SIMILAR TO ABOVE

PART PLAN OF NORTH WALL



FILTER ROOM



TOILET & CORRIDOR

PART PLANS OF WEST WALL

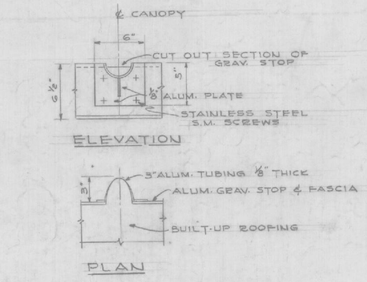
Scale: ½"=1'-0"

ENTRANCE DETAILS FOR DOOR NOS 2, 3 & 4

PART ELEVATION

SECTION

DOOR NO 5



DOWNSPOUT DETAIL

Record Drawing
Contract No. DA-19-016-ENG- 6199

REVISION	DATE	DESCRIPTION	BY
	10-14-61	FINAL FIELD CORRECTIONS	

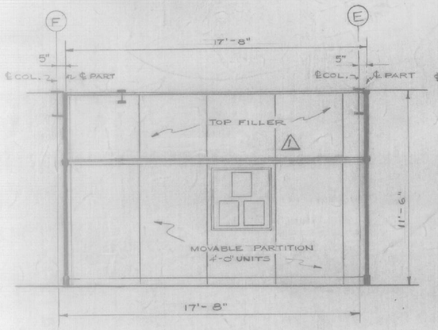
WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

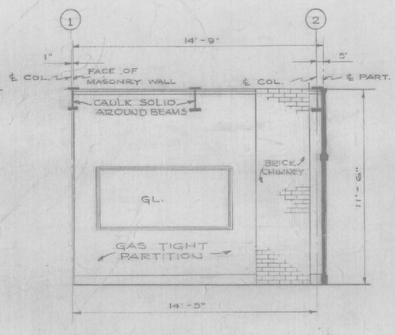
DRAWN BY: A.B.S.
TRACED BY:
CHECKED BY: C.G.M.
SUBMITTED: Howard D. Alger

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE.
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
EXTERIOR DETAILS

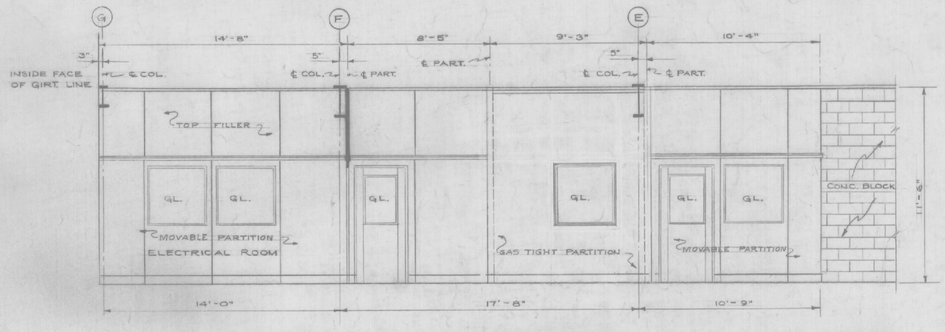
APPROVED: John Wm Leslie, CHIEF ENGINEERING DIVISION
APPROVED: Maynard D. Talbert, COL. E., DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959
SCALE: 1/2"=1'-0"
SPEC. NO. DA-19-016-ENG-59-1254
DRAWING NUMBER AW71-05-31
SHEET 7



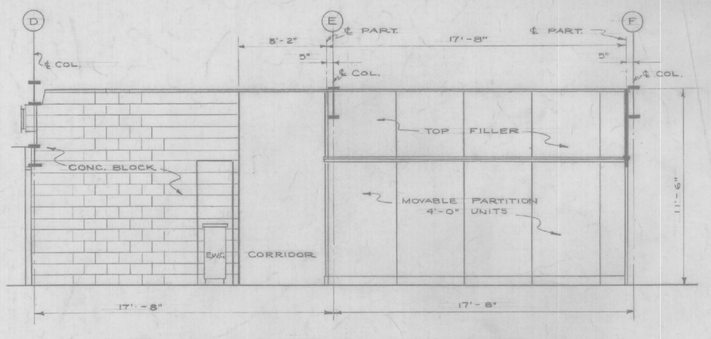
SOUTH ELEVATION OF CHEMICAL FEED ROOM



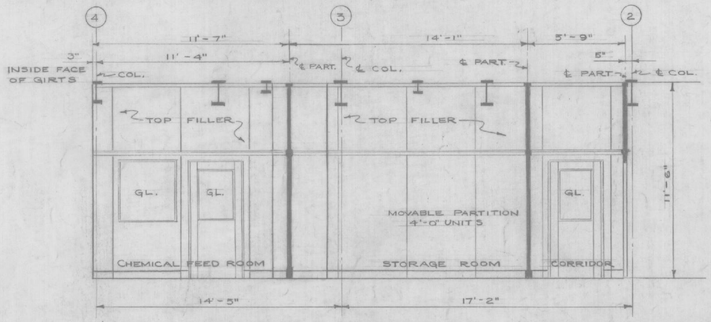
WEST ELEVATION OF OFFICE



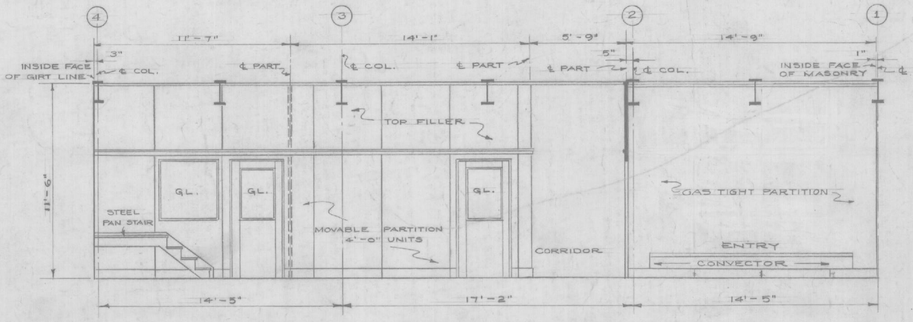
SOUTH ELEVATION OF CORRIDOR



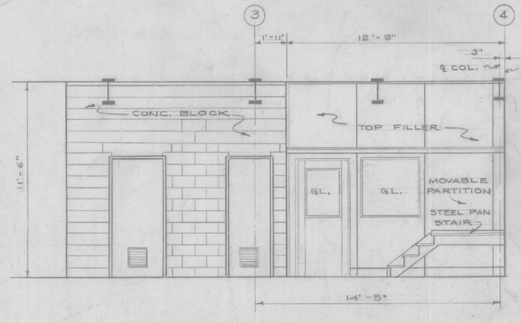
NORTH ELEVATION OF CORRIDOR



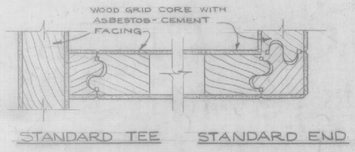
EAST ELEVATION OF STORAGE & CHEMICAL FEED ROOMS



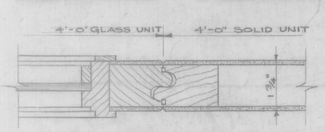
EAST ELEVATION OF CORRIDOR



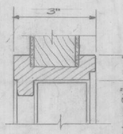
WEST ELEVATION OF CORRIDOR



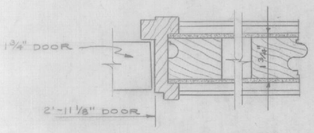
STANDARD TEE STANDARD END



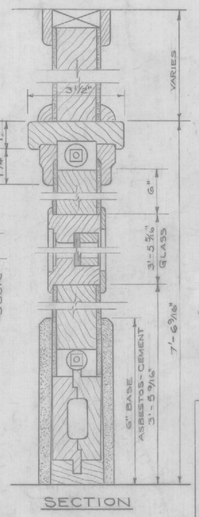
PLAN AT PANEL JOINT



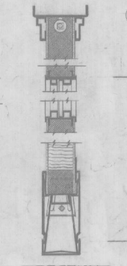
DOOR HEAD

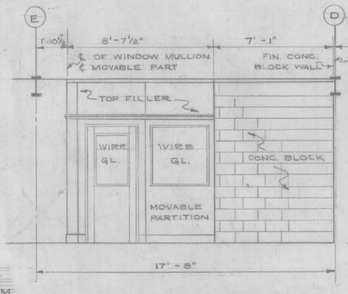


DOOR JAMB

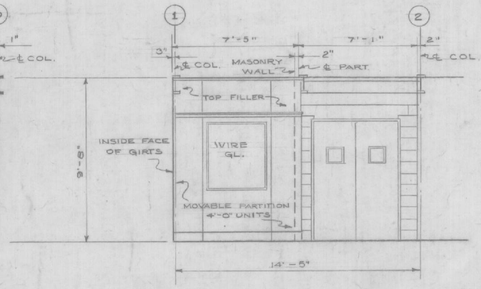


SECTION



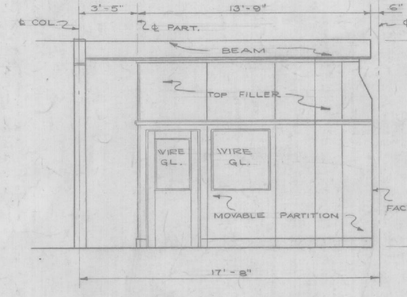


SOUTH ELEVATION

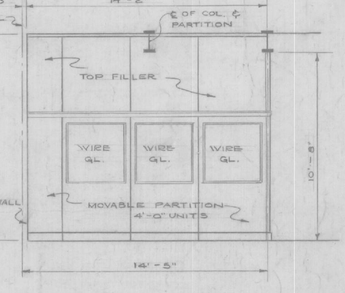


WEST ELEVATION

SECOND FLOOR STAIR PARTITION



SOUTH ELEVATION

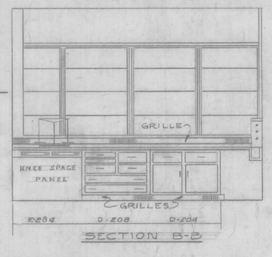


WEST ELEVATION

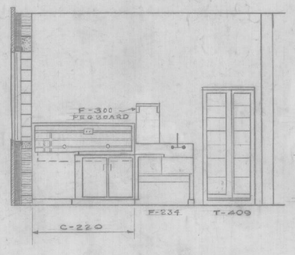
BASEMENT STAIR PARTITION

ELEVATIONS OF MOVABLE PARTITIONS

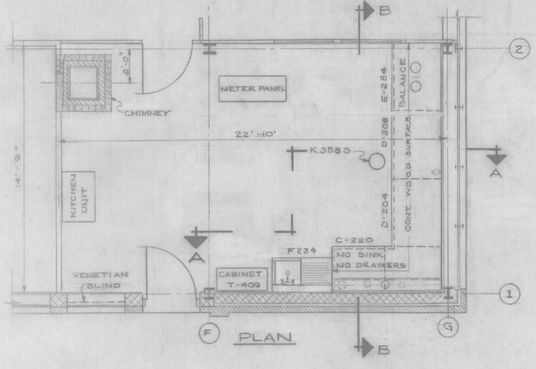
SCALE: ¼" = 1'-0"



SECTION B-B



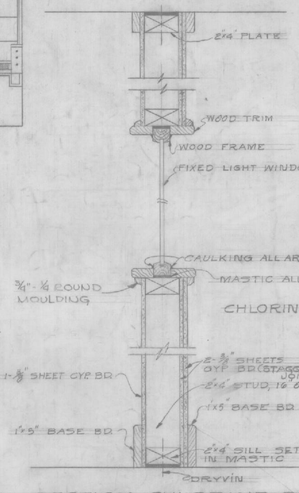
SECTION A-A



LABORATORY AND OFFICE EQUIPMENT

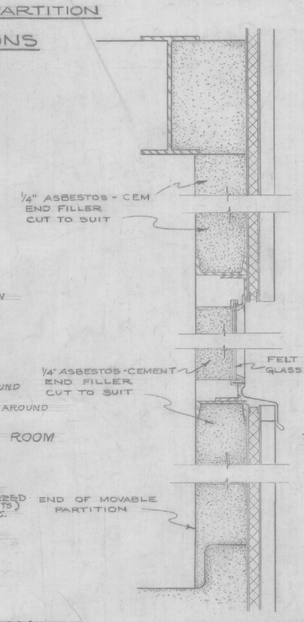
SCALE: ¼" = 1'-0"

NUMBERS REFER TO CAT. OF E.H. SHELDON COMPANY



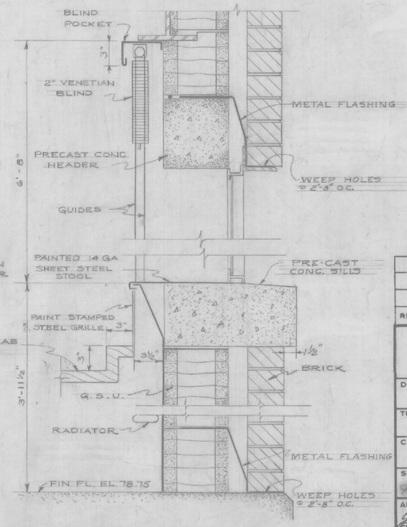
WALL SECTION CHLORINE ROOM

SCALE: 1½" = 1'-0"



END FILLER DETAIL

SCALE: 1½" = 1'-0"



LABORATORY EAST WALL DETAIL

SCALE: 1½" = 1'-0"

Record Drawing
Contract No. DA-19-016-ENG-6199

REVISION	DATE	DESCRIPTION
1	9-14-59	CLOCK, PANEL AND NOTE DELETED. (ADD # 3)

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: A.B.S.
TRACED BY: A.B.S.
CHECKED BY: C.G.M.
SUBMITTED: Harold D. Stilgen

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
LABORATORY AND MOVABLE PARTITIONS

APPROVED: John Wm. Leslie Jr. CHIEF ENGINEERING DIVISION
APPROVED: Maynard A. Stilson COL. C.E. DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959

SCALE AS Noted
SPEC NO. ENG-19-016-59-182
DRAWING NUMBER AW 71-05-31
SHEET 8

Record Drawing
Contract No. DA-19-016-ENG-6199

REVISION	DATE	DESCRIPTION	BY
	10-4-61	FINAL FIELD CORRECTIONS.	

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

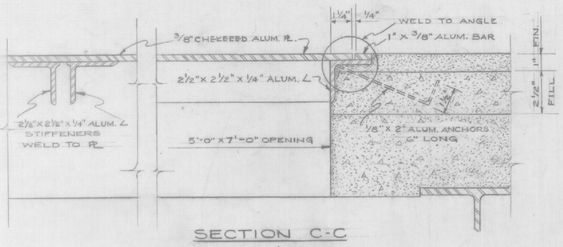
CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: RAR.
TRACED BY: RAR.
CHECKED BY: C.G.M.
SUBMITTED: Harold D. Kilgore

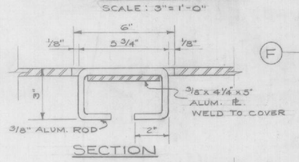
PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
STAIRS & ELEVATOR DETAILS

APPROVED John Wm Leslie, CHIEF ENGINEERING DIVISION
APPROVED COL., CE. DEPUTY DIVISION ENGINEER
DATE JUNE, 1959

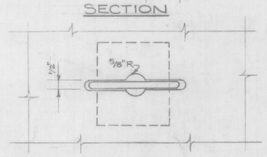
SCALE AS SHOWN
SPEC. NO. ENG-19-016-59-152
DRAWING NUMBER AW71-05-31
SHEET 9



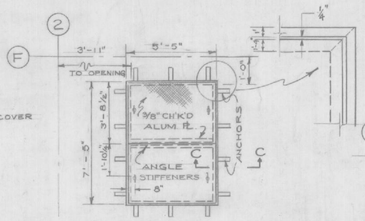
SECTION C-C
SCALE: 3"=1'-0"



SECTION

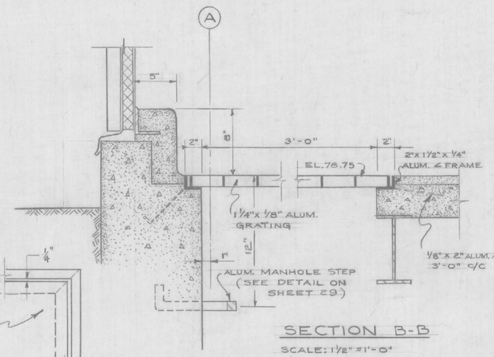


PLAN
HANDLE DETAIL
SCALE: 3"=1'-0"

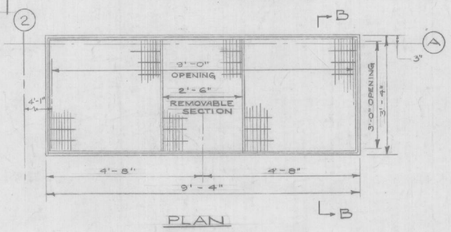


PLAN
SCALE: 1/4"=1'-0"

HATCH DETAILS

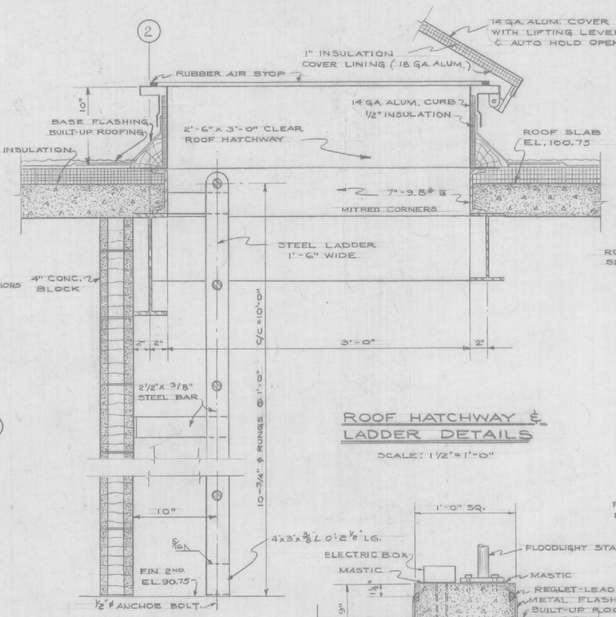


SECTION B-B
SCALE: 1½"=1'-0"

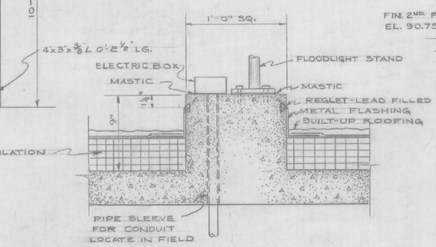


PLAN
SCALE: ½"=1'-0"

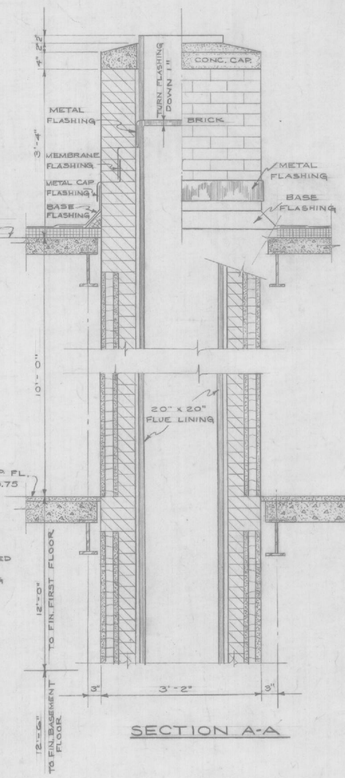
GRATING DETAILS



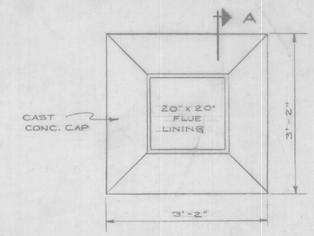
ROOF HATCHWAY & LADDER DETAILS
SCALE: 1½"=1'-0"



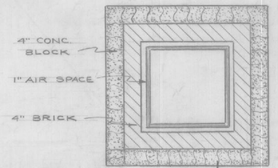
FLOODLIGHT PAD DETAIL
FOR LOCATION SEE ROOF PLAN
SCALE: 1½"=1'-0"
THREE REQUIRED



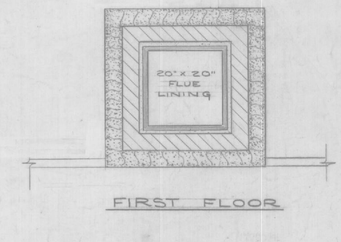
SECTION A-A



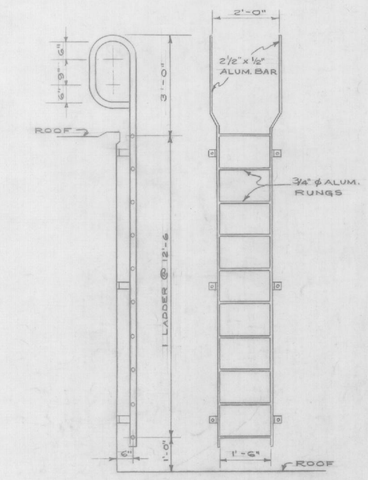
ROOF



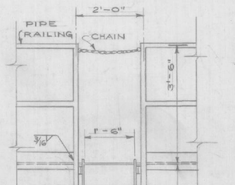
SECOND FLOOR



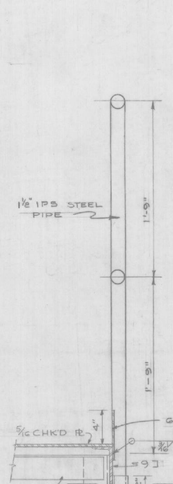
FIRST FLOOR



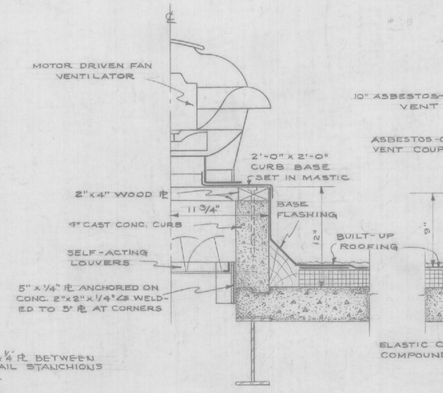
EXTERIOR LADDERS
SCALE: ½"=1'-0"



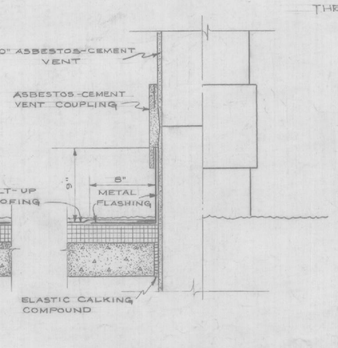
ELEVATION
SCALE: ½"=1'-0"
6 REQUIRED



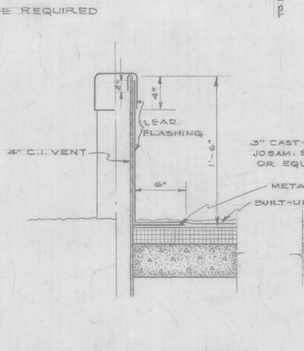
DETAIL OF RAILING
SCALE: 1½"=1'-0"



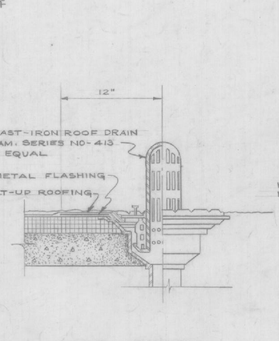
EXHAUST FAN



CHLORINATOR RM. EXHAUST

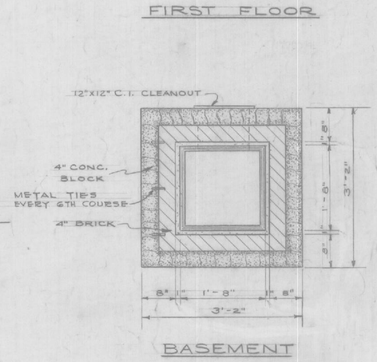


PIPE VENT

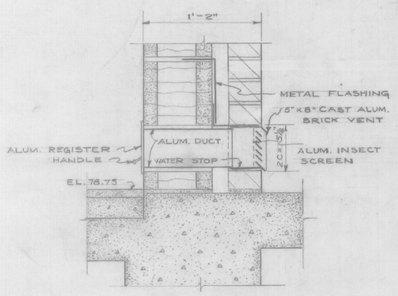


ROOF DRAIN

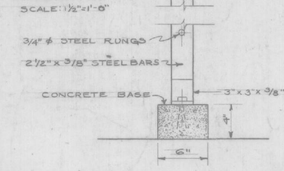
FLASHING DETAILS
SCALE: 1½"=1'-0"



BASEMENT
CHIMNEY DETAILS
SCALE: 3/8"=1'-0"

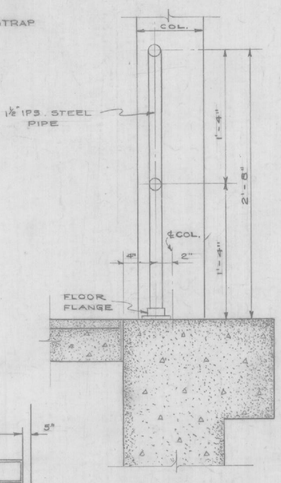


BRICK VENT
SCALE: 1½"=1'-0"

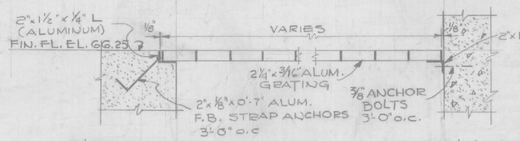


DETAIL OF LADDER
SCALE: 1½"=1'-0"

PIPE GALLERY RAILING & LADDERS

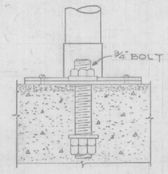


SECTION
SCALE: 1½"=1'-0"

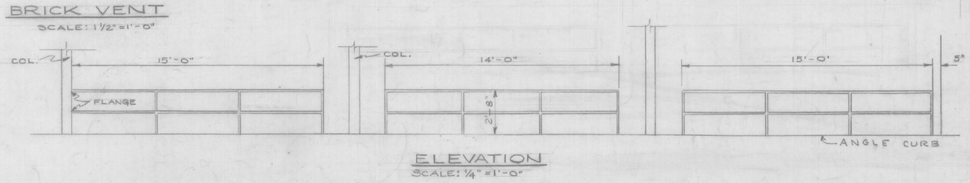


FLOOR CONN. WALL CONN.

PIPE TRENCH GRATING
SCALE: 1½"=1'-0"



FLOOR FLANGE DETAIL
NOT TO SCALE



ELEVATION
SCALE: ¼"=1'-0"

OPERATING GALLERY RAILING

Record Drawing
Contract No. DA-19-016-ENG-6199

REVISION	DATE	DESCRIPTION	BY
	4-17-62	FINAL FIELD CORRECTIONS.	

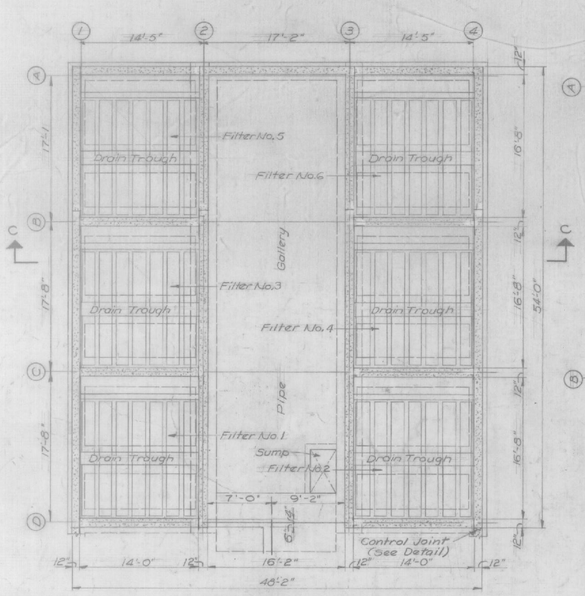
WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

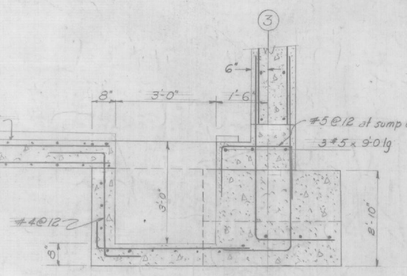
DRAWN BY: A.B.S.
TRACED BY: A.B.S.
CHECKED BY C.G.M.
SUBMITTED
APPROVED CHIEF ENGINEERING DIVISION
APPROVED COL., C.E. DEPUTY DIVISION ENGINEER
DATE JUNE, 1959

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
ARCHITECTURAL
MISCELLANEOUS DETAILS

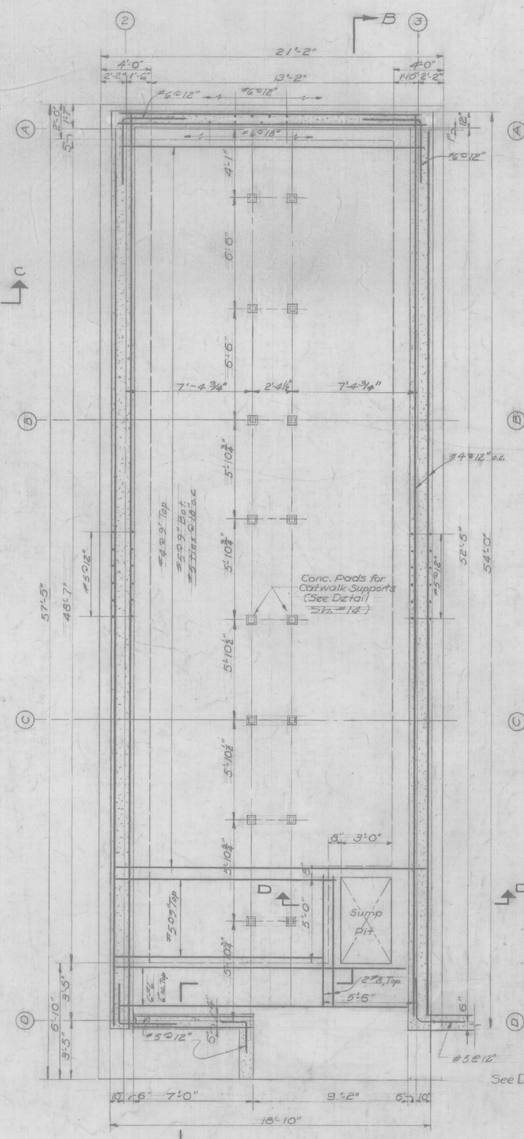
SCALE AS NOTED
SPEC NO. DA-19-016-ENG-59-19
DRAWING NUMBER AW71-05-31
SHEET 10



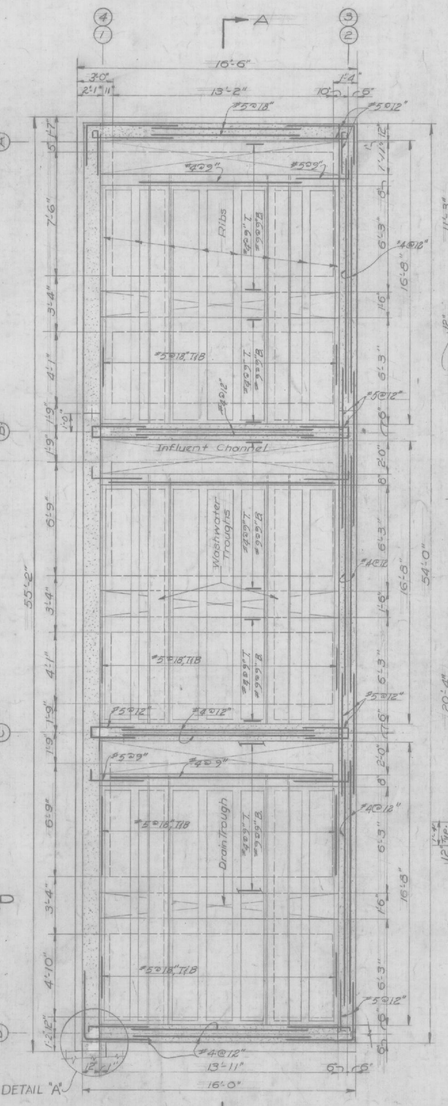
LAYOUT PLAN
SCALE 1/8"=1'-0"



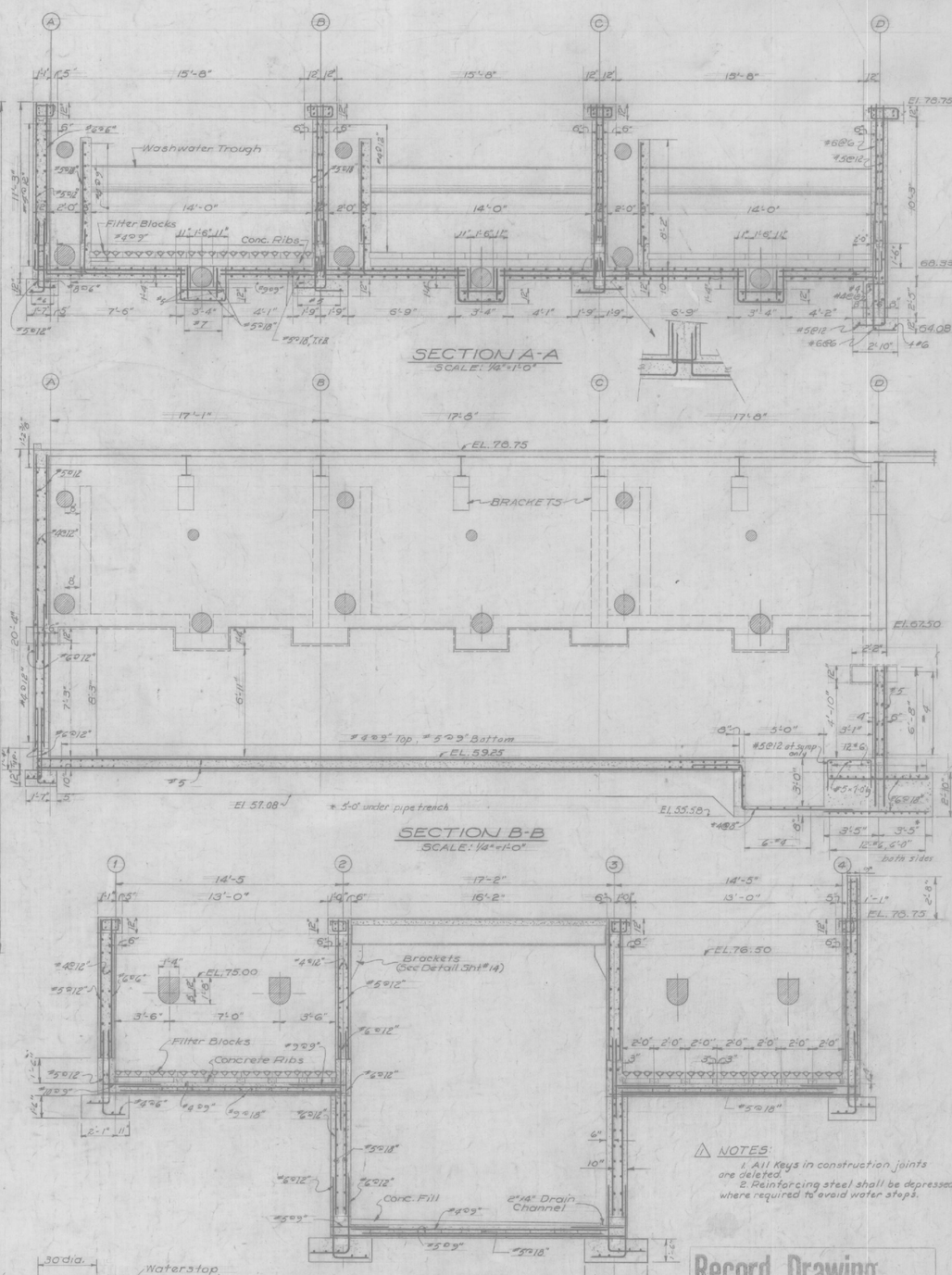
SECTION D-D
SCALE: 1/2"=1'-0"



PLAN - PIPE GALLERY
SCALE: 1/4"=1'-0"



PLAN - FILTER BOXES
FILTER BOXES 1, 3 & 5 SHOWN, 2, 4 & 6 SIMILAR TO OPPOSITE HAND.
SCALE: 1/4"=1'-0"

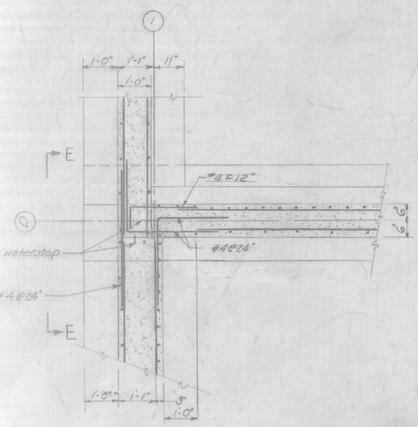


SECTION A-A
SCALE: 1/4"=1'-0"

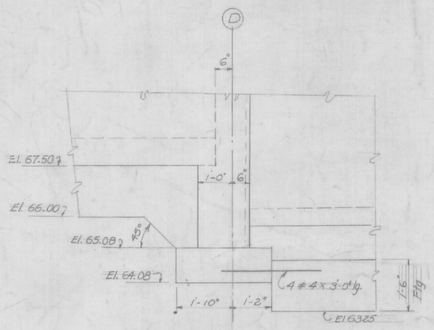
SECTION B-B
SCALE: 1/4"=1'-0"

SECTION C-C
SCALE: 1/4"=1'-0"

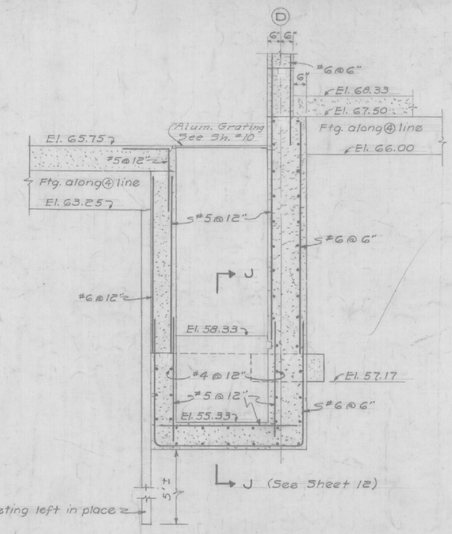
NOTES:
1. All Keys in construction joints are deleted.
2. Reinforcing steel shall be depressed where required to avoid water stops.



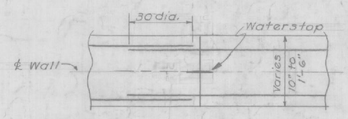
DETAIL "A"
SCALE: 1/2"=1'-0"



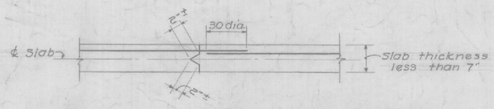
SECTION E-E
SCALE: 1/2"=1'-0"



SECTION K-K
SCALE: 3/8"=1'-0"
(Section on Sh. 12)



TYPICAL CONSTRUCTION JOINT
WALL & SLAB
VERTICAL & HORIZONTAL
SCALE: 1"=1'-0"



TYPICAL CONSTRUCTION JOINT
FLOOR & ROOF SLABS
SCALE: 1"=1'-0"

Record Drawing
Contract No. DA-19-016-ENG- 6199

REVISION	DATE	DESCRIPTION	BY
1	9-14-59	NOTES ADDED (ADD. #3)	WEM

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

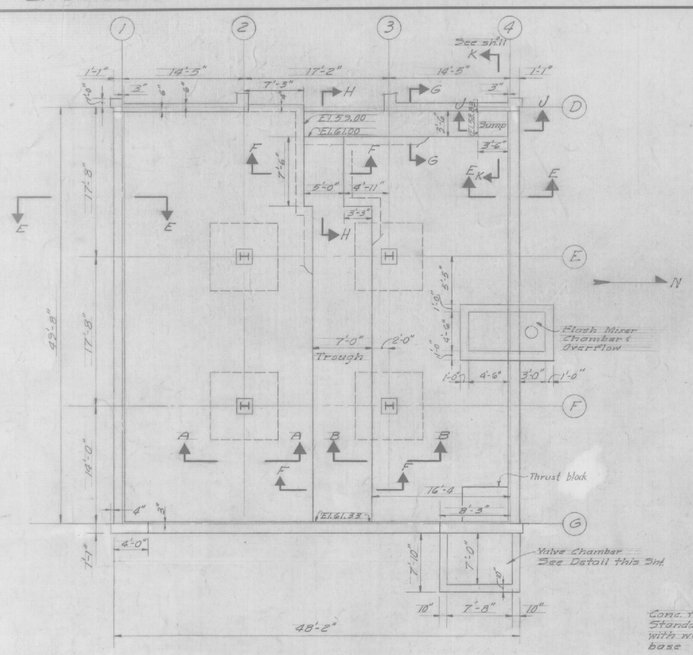
DRAWN BY:
TRACED BY:
CHECKED BY:
SUBMITTED: Howard R. Wilson

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
STRUCTURAL
FOUNDATION (FILTERS & GALLERY)

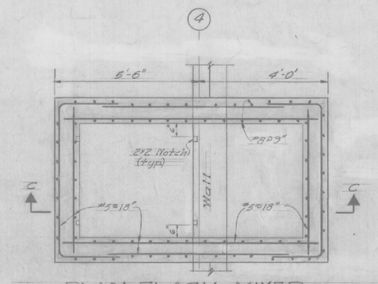
APPROVED: Chief, Engineering Division
APPROVED: Col., C.E. Deputy Division Engineer — DATE: JUNE, 1959

SCALE: AS NOTED
SPEC. NO. ENG.-19-016-59-152
DRAWING NUMBER AW71-05-31
SHEET 11

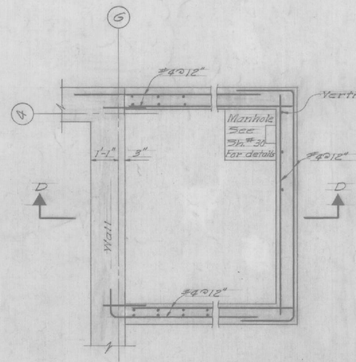
Boston, Mass.



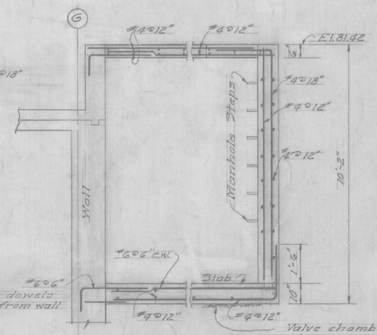
LAYOUT PLAN - BASEMENT FLOOR
Scale: 1/8" = 1'-0"



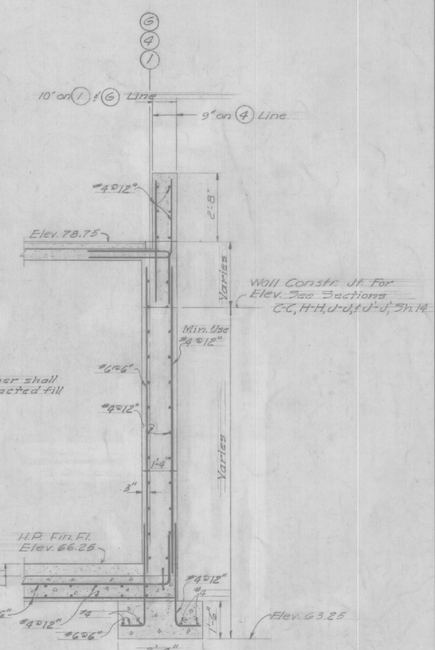
PLAN - FLASH MIXER
Scale: 3/8" = 1'-0"



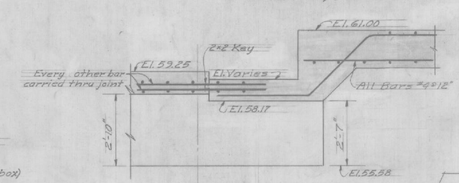
PLAN - VALVE CHAMBER
Scale: 3/8" = 1'-0"



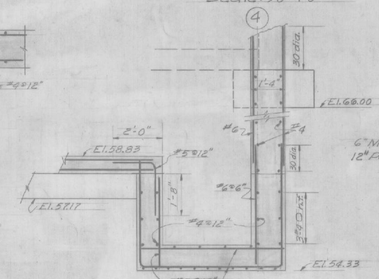
SECTION D-D
Scale: 3/8" = 1'-0"



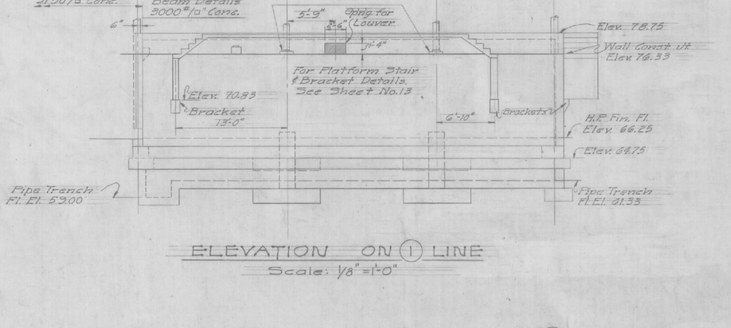
SECTION E-E
Scale: 3/8" = 1'-0"
TYPICAL WALL REINF.



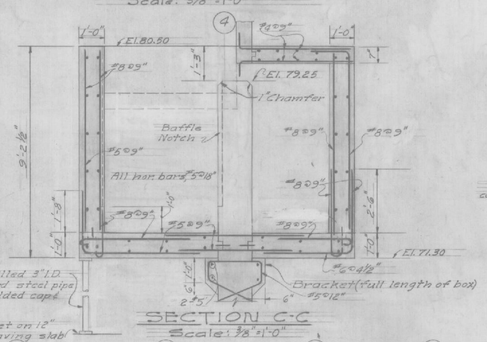
SECTION H-H
Scale: 3/8" = 1'-0"



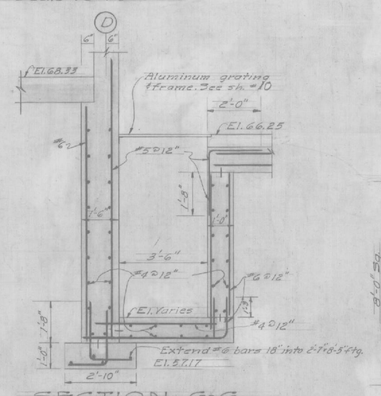
SECTION J-J
Scale: 3/8" = 1'-0"



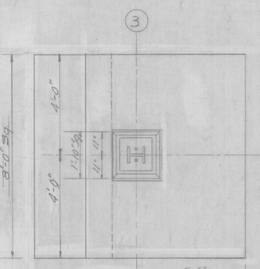
ELEVATION ON (1) LINE
Scale: 1/8" = 1'-0"

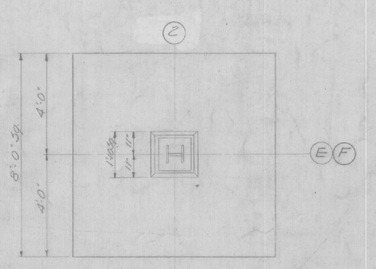


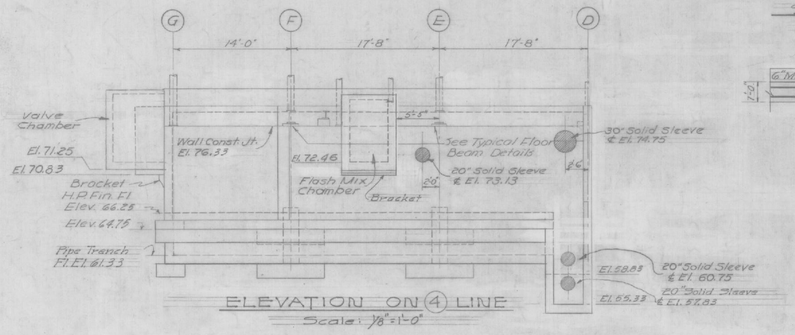
SECTION C-C
Scale: 3/8" = 1'-0"



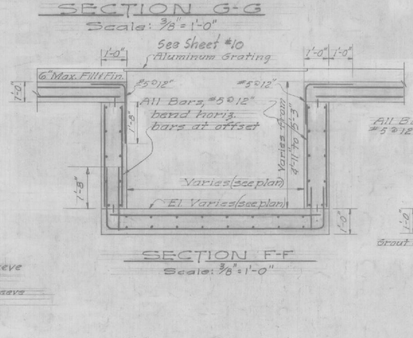
SECTION G-G
Scale: 3/8" = 1'-0"



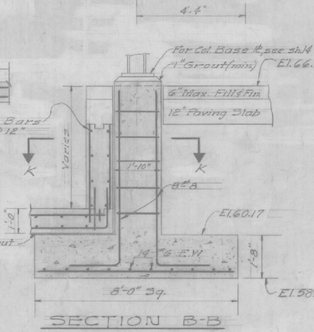




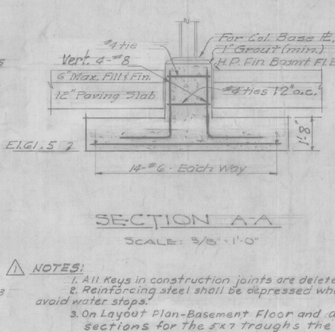
ELEVATION ON (4) LINE
Scale: 1/8" = 1'-0"



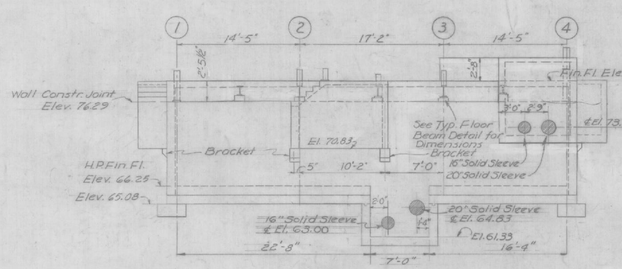
SECTION F-F
Scale: 3/8" = 1'-0"



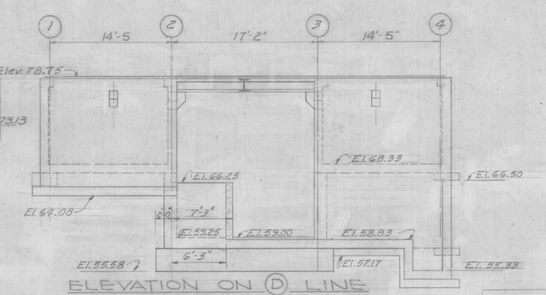
SECTION B-B
Scale: 3/8" = 1'-0"



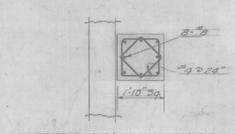
SECTION A-A
Scale: 3/8" = 1'-0"



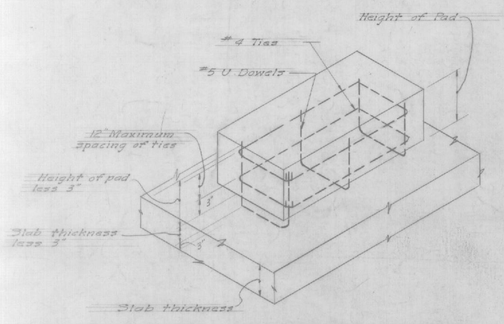
ELEVATION ON (G) LINE
Scale: 1/8" = 1'-0"



ELEVATION ON (D) LINE
Scale: 1/8" = 1'-0"



SECTION K-K
Scale: 3/8" = 1'-0"



TYPICAL EQUIPMENT PAD DETAIL

Concrete bases for piping shall be similar, with pipe shoe anchor bolts carried into 12" paving slab. Anchor bolts shall be of proper size to transfer thrust of piping to slab.

⚠ Contractor shall submit calculations and details for approval.

MINIMUM CLEAR COVER - INCHES EXCEPT AS NOTED						
MEMBER	EXPOSED TO					
	AIR	AIR OVER LIQUID SURFACES	EARTH	LIQUIDS	SEA WATER	
Bottoms of footings, foundation slabs, foundation beams	—	—	3	3	4	
Walls, slabs, and piers	2	2	2	2	3	
Beam, girders, and columns	1½	2	2	2	3	
Tops & bottoms of floor slabs	¾	2	3	2	3	
Tops & bottoms of "roof" slabs	¾	2	2	2	—	

⚠ NOTES:
1. All keys in construction joints are deleted.
2. Reinforcing steel shall be depressed where required to avoid water stops.
3. On Layout Plan-Basement Floor and applicable sections for the 5'x7' troughs, the aluminum grates shall be 2'9" x 3'/16" in lieu of 1'6" x 3'/16".

REVISION	DATE	DESCRIPTION	
	4-17-62	FINAL FIELD CORRECTIONS.	
⚠	9-14-61	NOTES ADDED (ADD #3)	DA

WHITMAN & HOWARD, INC. ENGINEERS 89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY OFFICE OF THE DIVISION ENGINEER NEW ENGLAND DIVISION WALTHAM, MASS.

DRAWN BY: RAR
TRACED BY: RAR
CHECKED BY: C.G.M.
SUBMITTED: Harold D. Wilson

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
STRUCTURAL
FOUNDATION (CONTROL BUILDING)

APPROVED: John Wm. Leslie Jr. CHIEF ENGINEERING DIVISION
APPROVED: Maywood A. Seibert COL. C.E. DEPUTY DIVISION ENGINEER
DATE: JUNE-1959

SCALE AS NOTED SPEC NO. DA-19-016-ENG-59-152
DRAWING NUMBER AWV71-05-31
SHEET 12

Record Drawing
Contract No. DA-19-016-ENG-6199

CORPS OF ENGINEERS U. S. ARMY

Record Drawing
Contract No. DA-19-016-ENG-6199

Notes

For Structural Steel Framing see Sheet No. 14.
For Girt Framing see Sheet No. 15.
For Foundations, Wall Sections and Elevations see Sheet No. 11 & 12
All Concrete Shall Have a minimum Compressive Strength at 28 days of 3000 p.s.i.

⚠1 NOTES:
1. ALL KEYS IN CONSTRUCTION JOINTS ARE DELETED
2. REINFORCING STEEL SHALL BE DEPRESSED WHERE REQUIRED TO AVOID WATER STOPS.

REVISION	DATE	DESCRIPTION				
⚠1	9-14-59	NOTES ADDED (ADD #3)	og	H.E.W.	Eq	EDG

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: A.B.S.
TRACED BY:
CHECKED BY: C.G.M.
SUBMITTED: Harold D. Kilgore.

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
STRUCTURAL FLOOR SLABS

APPROVED: John Wm. Leslie — CHIEF ENGINEERING DIVISION
APPROVED: Raymond A. Seifert — COL. C.E. DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959
SCALE: AS NOTED
SPEC. NO. ENG-19-016-59-152
DRAWING NUMBER: AW 71-05-31
SHEET 13

COLUMN SCHEDULE

COLUMN / ELEVATION		A_1 to A_4 / B_1 to B_4 / C_1 to C_4	D_1 ℄ D_4	D_2 ℄ D_3	E_1 ℄ E_4	E_2 ℄ E_3	F_1 ℄ F_4	F_2 ℄ F_3	G_1 ℄ G_4	G_2 ℄ G_3
High Roof Slab El. 100.75										
Fin. 2nd Fl. El. 90.75			8WF24	8WF31	8WF28	8WF40	8WF28	8WF35	8WF28	8WF28
Low Roof Slab El. 87.08										
Fin. 1st Fl. El. 78.75			8WF24			8WF58		8WF66		
Basement Fl. Slab El. 66.25										
BASE PLATES	W	9"	9"	11"	7½"	18"	7½"	18"	9"	9"
	L	9"	9"	11"	9"	18"	9"	18"	9"	9"
	T	⅜"	⅝"	1¼"	½"	2"	½"	2"	½"	½"
	G	5½"	5½"	5½"	3½"	5½"	3½"	5½"	5½"	3½"

NOTE:
Dimensions given are to ends of column shaft, and do not include base plates.

BASE PLATE DETAILS

TYPICAL CONNECTIONS
Scale: 1"=1'-0"

FLOOR BEAM TO COLUMN FLANGE

ROOF BEAM TO COLUMN FLANGE OR WEB

SECTION D-D

SECTION F-F
Scale: ½"=1'-0"

SECTION G-G
Scale: ½"=1'-0"

SECTION C-C
Scale: ½"=1'-0"

SECTION H-H
Scale: 1"=1'-0"
Note: Section typical at columns E-1, E-4, F-1, F-4, G-2 & G-3

SECTION J-J & J'-J'
Scale: 1"=1'-0"

SECTION K-K
Scale: 1"=1'-0"

TYPICAL SECTION SLAB ON BEAM
Scale: 1"=1'-0"

FIRST FLOOR PLAN
Scale ⅛"=1'-0"

SECOND FLOOR & LOW ROOF PLAN
Scale: ⅛"=1'-0"

HIGH ROOF PLAN
Scale ⅛"=1'-0"

SECTION E-E
Scale: ¼"=1'-0"

PLAN - ELEVATOR PIT
Scale: ¼"=1'-0"

ELEVATOR PENTHOUSE ROOF
Scale: ⅛"=1'-0"

SECTION X-X
Scale ⅛"=1'-0"

PLAN
Scale: ¼"=1'-0"

SECTION B-B
Scale: ¾"=1'-0"

ELEVATION A-A
Scale: ¼"=1'-0"

PIPE GALLERY WALKWAY

Note: Steps in horizontal joints in walls as required shall be located 12" clear of plates on both sides.

Note: Roof Live load = 40 #/ft End Fl. Live Load = 300 #/ft

Note: Live load = 40 #/ft

NOTES:
1. All rivets to be ⅞" ϕ in 1⅛" ϕ holes.
2. Shop connections - secondary framing, ¾" ϕ rivets except as noted.
3. Field connections - Main members (12" and up) ⅞" ϕ rivets or high-strength bolts; Secondary members (all 10" and smaller) ¾" ϕ bolts.
4. The structural floor framing will be changed from 18WF55 to 14WF68. Connections to columns & of adjacent members will be modified accordingly to maintain the top elevation of 90.5 feet.

Record Drawing
Contract No. DA-19-016-ENG-6199

REVISION	DATE	DESCRIPTION	BY
	4-17-62	Final Field Corrections.	
△	12-14-59	High roof plan revised; plan & section added.	

WHITMAN & HOWARD, INC.
ENGINEERS
89 BROAD ST., BOSTON, MASS.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

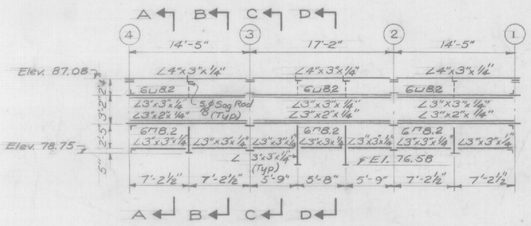
DRAWN BY: Z.V.S
TRACED BY:
CHECKED BY: C.G.M
SUBMITTED: Harold D. Kilpatrick

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
STRUCTURAL STEEL
PLANS, SECTIONS & DETAILS

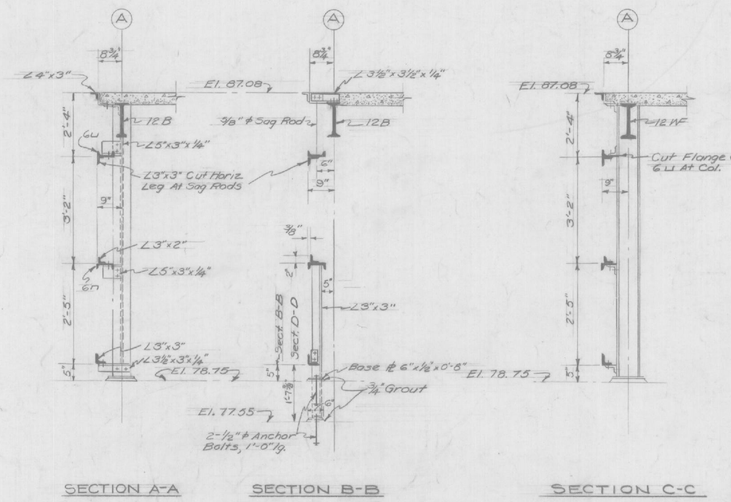
APPROVED: John Wm. Leslie, Jr. CHIEF ENGINEERING DIVISION
APPROVED: Raymond A. Rafuse COL., CE DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959

SCALE: As Noted
SPEC. NO. DA-19-016-ENG-6199
DRAWING NUMBER AW71-05-31
SHEET 14

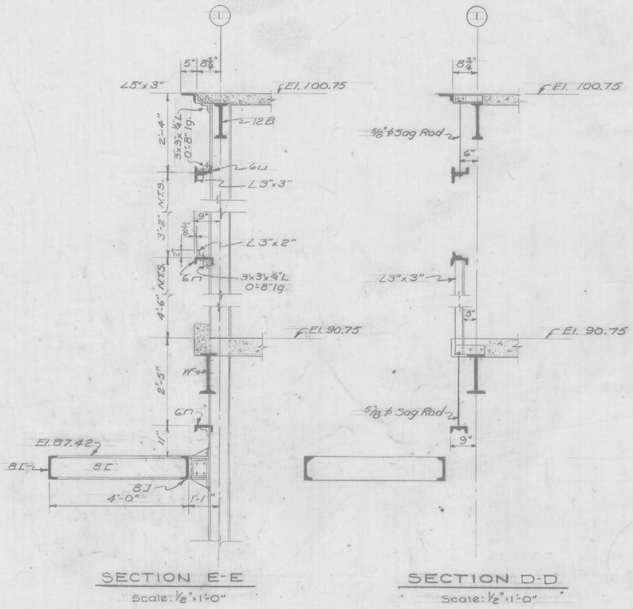
Boston Blue Print Co., Boston, Mass.

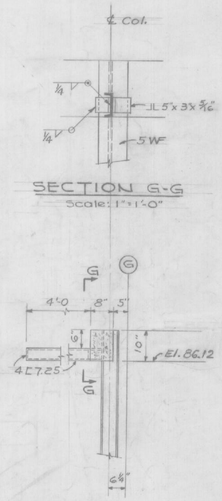


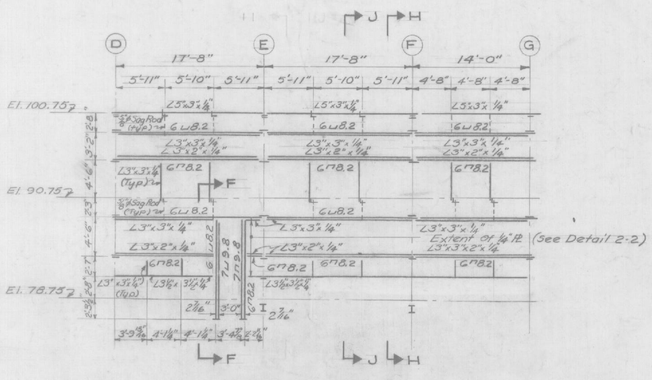
ELEVATION AT LINE (A)
Scale: ⅛" = 1'-0"



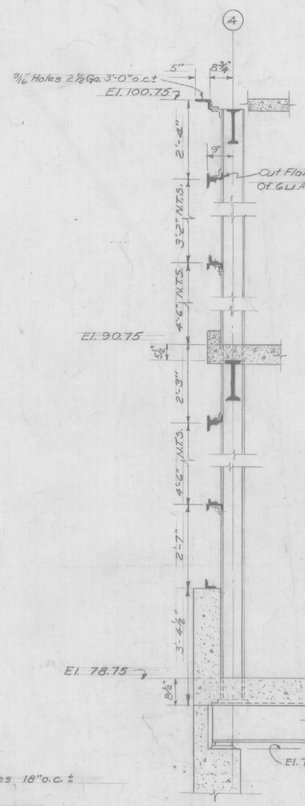
SECTION D-D (Similar Except As Noted)

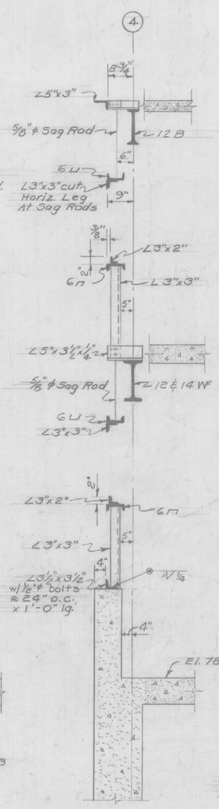


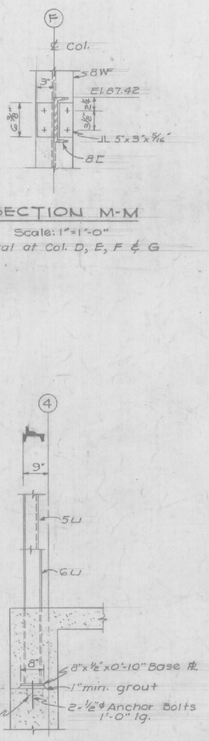


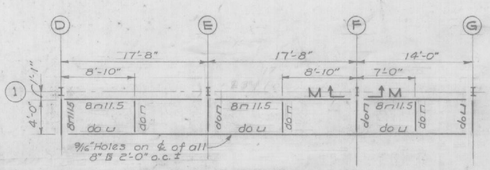


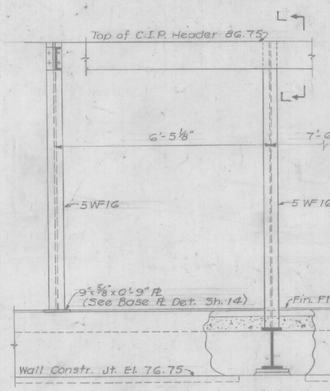
ELEVATION AT LINE (4)
Scale: ⅛" = 1'-0"

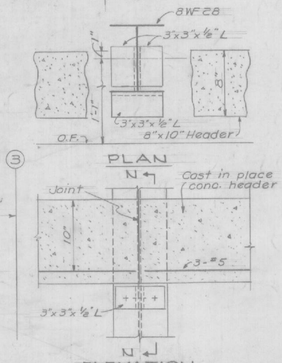








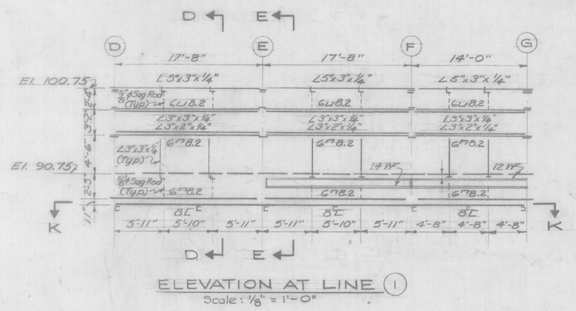




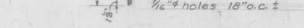
DETAILS - C.I.P. HEADER AT BLDG. COLUMNS
Scale: 1½" = 1'-0"

REFERENCE DRAWINGS

Foundations Sheet Nos. 11 & 12
Structural Steel Sheet No. 14



ELEVATION AT LINE (1)
Scale: ⅛" = 1'-0"



TYPICAL DRILLING FOR SASH HEAD ANGLES
Scale: 1" = 1'-0"

NOTE
1. The contractor shall furnish & install 2-12"-30lb. channels 17'-9¼" & 22'-1⅜" long for window lintels at East Side of the filter bldg. Connections shall be bent plate 8"x¼"x1'-3" for end columns T-shape 8" long for intermediate columns and direct attachment for the door columns.

Record Drawing
Contract No. DA-19-016-ENG-6199

REVISION	DATE	DESCRIPTION	BY
	10-4-61	Final Field Corrections.	

WHITMAN & HOWARD, INC.
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CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DIVISION ENGINEER
NEW ENGLAND DIVISION
WALTHAM, MASS.

DRAWN BY: A.B.S.
TRACED BY: A.B.S.
CHECKED BY: C.G.M.
SUBMITTED: Harold D. Kilgore

PEASE AIR FORCE BASE
PORTSMOUTH, NEW HAMPSHIRE
SURFACE WATER SUPPLY
FILTER BUILDING
STRUCTURAL
WALL FRAMING

APPROVED: John Wm. Carlson, CHIEF ENGINEERING DIVISION
APPROVED: Harold A. Gilbert, COL., C.E., DEPUTY DIVISION ENGINEER
DATE: JUNE, 1959

SCALE: As Noted
SPEC. NO. ENG(16-016-)-170-152
DRAWING NUMBER: AW71-05-31
SHEET 15