

June 1, 2012

WALTHAM HIGH SCHOOL, CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM
Waltham High School
617 Lexington Street
Waltham, MA 02452

ADDENDUM #1

The attention of bidder and filed sub-bidders submitting proposals for the above named project is called to the following addenda to the drawings and specifications. Revisions designed as Addendum items set forth herein, whether of omission, addition or substitution, supersede specific parts of the documents described herein and are to be included in and form part of the drawings for the above named project.

ITEMS APPLICABLE TO THE SPECIFICATIONS:

1. Project Manual, dated May 30, 2012, Section 00300, FORM FOR GENERAL BID, Replace with attached Bid Form.
2. Project Manual, dated May 30, 2012, Section 00310, FORM FOR SUB-BID, Replace with attached Bid Form.
3. Project Manual, dated May 30, 2012, Section 01030, Alternates; Section 1.6 Alternates, change..."Paragraph B" to read as follows:
 - B. Alternate No. 2: "HVAC Air Handler, Cosmetology Lab"
 1. Add to base bid: (HVAC FILED SUB-BIDDER) Remove existing unit ventilator completely and prepare opening for new unit ventilator as specified on H1.03. This option provides additional equipment in Add Alternate #2 for air conditioning of space.
 2. Add to base bid: (GENERAL BIDDER) Modify existing window / wall opening as required for new unit ventilator and patch to match with matching wall material & window mullion stock and / or glazing as required to render a tight seal. Remove and patch wall to match at open louver above ceiling completely.
 3. Add to base bid: (ELECTRICAL BIDDER) Electrical Sub-Bidder will provide all necessary power and wiring to completely install new HVAC unit. Work to be performed as specified on E4.03 & E5.03
4. Project Manual, dated May 30, 2012, Section 01030, Alternates; Section 1.6 Alternates, add..."Paragraph C" to read as follows:
 - C. Alternate No. 3: "HVAC Air Handler, Cosmetology Lab"
 1. Add to base bid: (HVAC FILED SUB-BIDDER) Remove existing unit ventilator completely and prepare opening for new unit ventilator as specified on H1.03. This option provides additional equipment in Add Alternate #2 for air conditioning of space. HVAC Filed Sub-Bidder is responsible for placing housekeeping pad as located in field with Architect and Owner.
 2. Add to base bid: (GENERAL BIDDER) General Contractor will coordinate location of new condenser unit with Architect and Owner and with HVAC Filed Sub-Bidder.
 3. Add to base bid: (ELECTRICAL BIDDER) Electrical Sub-Bidder will provide all necessary power and wiring to completely install new HVAC unit. Work to be performed as specified on E4.01 & E5.03

ITEMS APPLICABLE TO THE DRAWINGS:

1. Project Documents entitled, "WALTHAM HIGH SCHOOL, CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," dated May 30, 2012, Sheet A1.03, Add "General Note: The Chef's Kitchen is located on the first floor of a three story building. The basement level beneath the Chef's Kitchen is fully exposed to grade as a walk-out resulting in a four story height at the point of the project."
2. Project Documents entitled, "WALTHAM HIGH SCHOOL, CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," dated May 30, 2012, Sheet H1.03, Replace with attached H1.03 completely. All General and Sub-Bidders make note of revisions clouded.
3. Project Documents entitled, "WALTHAM HIGH SCHOOL, CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," dated May 30, 2012, Sheet E4.01, Replace with attached E4.01 completely. All General and Sub-Bidders make note of revisions clouded.
4. Project Documents entitled, "WALTHAM HIGH SCHOOL, CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," dated May 30, 2012, Sheet E5.03, Replace with attached E5.03 completely. All General and Sub-Bidders make note of revisions

END OF ADDENDUM # 1

SECTION 00300 – FORM FOR GENERAL BID

A. General Bid Opening Date: 3:00 PM, June 13, 2012

B. BASE BID: Undersigned proposes to furnish all labor and materials required for the "CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," Waltham High School, 617 Lexington Street, Waltham, Massachusetts", in accordance with accompanying plans and specifications prepared by JFF Design, Architects, 24 Warwick Avenue, Waltham, MA 02452, dated May 30, 2012 for the contract price specified below, subject to additions and deductions according to terms of specifications.

C. CONTRACT PRICE:
The undersigned:

(Please type or print the business name of the bidding firm)

having visited the site of the above project and having familiarized myself with the local conditions affecting the cost of the work and with the contract documents, including Amendments and Addenda No's. _____, hereby proposes to furnish all labor, materials, tools, equipment, insurance, permits and taxes, and to do and lawfully perform all things as provided in the specifications, all in accordance with the contract documents, for the sum of:

D. Base Bid (in words) Dollars,

\$ _____ dollars and _____ cents
(\$ _____).

E. The subdivision of the proposed contract price is as follows:

a. Item 1. The work of the General Contractor, being all work other than that covered by Item 2. \$ _____

b. Item 2. Sub Bids as follows:

Sub-Trade	Number of Sub-Bidder	Amount	Bonds required indicated by "Yes" or "No"
<u>MECHANICAL</u> _____	_____	\$ _____	_____
<u>ELECTRICAL</u> _____	_____	\$ _____	_____
<u>PLUMBING</u> _____	_____	\$ _____	_____

Total of Item 2 \$ _____

F. ALTERNATES:

For Alternate No. 1 Add \$ _____ (General Bidder)	Deduct \$ _____
For Alternate No. 1 Add \$ _____ (Plumbing Filed Sub-Bid).	Deduct \$ _____
For Alternate No. 2 Add \$ _____ (General Bidder)	Deduct \$ _____
For Alternate No. 2 Add \$ _____ (HVAC Filed Sub-Bid)	Deduct \$ _____

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For Alternate No. 3 Add \$ _____
(HVAC Filed Sub-Bid)

Deduct \$ _____

For Alternate No. 3 Add \$ _____
(ELECTRICAL Filed Sub-Bid)

Deduct \$ _____

G. UNIT PRICES: NOT USED

- H. TIME OF COMPLETION: The undersigned agrees to commence work no later than July 5, 2012 but the space is available as early as June 16, 2012, providing notice to proceed has been issued by City of Waltham and to substantially complete the Work within one hundred eighty (180) consecutive calendar days (including Saturdays, Sundays and holidays). In the case the Work is not completed within the specified time, it is understood and agreed the General Contractor shall pay the Owner, not as a penalty but as liquidated damages, the amount of \$500 (five hundred dollars) for each calendar day after which completion was required up to and including the day of Substantial Completion.
- I. CONTRACT: The undersigned agrees that, if he is selected as the General Contractor, he will, within five (5) days, Saturdays, Sundays and legal holidays included, after presentation thereof by the Awarding Authority, execute a Contract in accordance with the terms of this General Bid and furnish a Performance Bond and also a Labor and Materials or Payment Bond, each of a Surety Company qualified to do business under the laws of the Commonwealth of Massachusetts and satisfactory to the Awarding Authority, and each in the sum of 100% of the Contract Price, the premiums for which are to be paid by the General Contractor and are included in the Contract Price.
- J. CERTIFICATE OF ELIGIBILITY: The undersigned has included with this Bid his Certificate of Eligibility and Update Statement as required by the General Laws.
- K. NON-COLLUSION CERTIFICATION: The undersigned certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this Paragraph, the word "person" shall mean any natural person, joint venture, partnership, corporation, or any other business or legal entity.
- L. FAMILIARITY WITH CONDITIONS: The undersigned represents that in regard to the conditions affecting the Work to be done and the labor and materials needed, this General Bid is based upon his familiarization with the site in conjunction with the Contract Drawings and Specifications and not on any oral or other representation of any employee, officer, agent or consultant of the Awarding Authority.
- M. The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he will comply fully with all laws and regulations applicable to awards made subject to Section Forty-Four A.
- N. TAXES: As required by MGL, Chapter 62C, s49A, the undersigned certifies the bidder has complied with all laws of the Commonwealth relating to taxes.
- O. DEBARMENT: The undersigned further certifies under penalties of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated there under.
- P. The undersigned as Bidder certifies that if this proposal is accepted, s/he will furnish to the City of Waltham with the invoice for the material or equipment supplied two copies of any and all Material Safety Data Sheets applicable to such material or equipment, as required by M.G.L. Chapter 111F, so called "Right to Know Law".

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- Q. The undersigned certifies under penalties of perjury that this bid is in all respects bonafide, fair and made without collusion or fraud with any other person. The word "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.
- R. Substantial Completion
 - a. The work of the Contract shall be Substantially Completed in one hundred eighty (180) calendar days from the date of the "Notice to Proceed" and executed contract.
- S. In accordance with M.G.L., the undersigned certifies that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by OSHA that is at least 10 hours in duration at the time the employee begins work and shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

Date _____

(Name of General Bidder)

By _____
(Name of Person Signing Bid and Title)

(Business Address)

(City, State and Zip Code)

(Telephone Number)

(Fax Number)

(Seal, if Corporation)

By: _____
(If Corporation – Name and Office See also attached Certificate of Corporate Vote)

NOTE: This proposal must bear the written signature of the Bidder. If the Bidder is a partnership, the proposal must be signed by a partner. If the Bidder is a corporation, the proposal must be signed by a duly authorized officer or agent of such corporation. If the business owned by the individual or partnership is conducted under a trade or assumed name, a certified copy of doing business under an assumed name should be annexed.

Attached hereto and part of this bid proposal, are the following forms completed and signed:

1. DCAM (Form CQ7)
Contractor shall obtain form from the Division of Capital Asset Management
2. DCAM Contractor Update Statement (Form CQ3)
Contractor shall obtain form from the Division of Capital Asset Management
3. Bid Bond
4. Non-Collusion Affidavit
5. Certificate of Corporate Vote
6. Certification of Payment of State Taxes.

END OF SECTION 00300

NON-COLLUSION AFFIDAVIT

State of _____

County of _____

_____ being first duly sworn disposes and says that:

1. He / (She) is _____ of _____, the Bidder that has submitted the attached bid for the "CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM" Waltham High School, 617 Lexington Street, Waltham, Massachusetts"
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or to fix any overhead, profit or cost element of the Bid price of the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Waltham or any person interested in the proposed Contract; and
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agreements, representatives, owners, employees or parties in interest, including this affiant.

Signed _____
(title)

Subscribed and sworn before me

this _____ day of _____, 2012

My commission expires: _____

CERTIFICATE OF VOTE

I, _____,

Clerk of _____

hereby certify that, at a meeting of the Board of Directors of said Corporation
duly held on _____ (Date must be earlier than date on contract)
at which a quorum was present and voting throughout, the following vote was duly passed and is
now in full force and effect:

"VOTED": _____
(Name of Office authorized to sign for Corporation)

is hereby authorized, directed and empowered, in the name and on behalf of this Corporation, to sign, seal and with the corporate seal, execute, acknowledge and deliver all contracts, bonds and other obligations, and that such actions will be valid and binding upon this corporation for all purposes, and that a certificate of the Clerk of the corporation setting forth this vote shall be delivered to the City of Waltham and that this vote shall remain in full force and effect unless and until the same has been altered, amended or revoked by a subsequent vote of these directors. A certificate of such later vote of such directors be attested by the Clerk of this Corporation and delivered to the City of Waltham.

CERTIFICATE AS TO CORPORATE BIDDER

I, _____

certify that I am the _____

of the corporation named as bidder in the within bid form,

that _____,

who signed said bid form on behalf of the bidder was then _____ of said corporation, that I know his signature, that his signature thereto is genuine and that said bid form was duly signed, sealed and executed for and in behalf of said corporation by authority of its governing body.

(Corporate seal)

Secretary-Clerk

Date

CERTIFICATION OF PAYMENT OF STATE TAXES

LEGISLATION ENACTED BY THE COMMONWEALTH OF MASSACHUSETTS EFFECTIVE JULY 1, 1983, REQUIRES THAT THE ATTESTATION BELOW BE SIGNED:

PURSUANT TO M.G.L. CH 62C, SEC. 49A, I CERTIFY UNDER PENALTIES OF PERJURY THAT I, TO THE BEST KNOWLEDGE AND BELIEF, HAVE FILED ALL STATE TAX RETURNS AND PAID ALL STATE TAXES REQUIRED UNDER LAW.

SOCIAL SECURITY NUMBER
FEDERAL ID NUMBER

SIGNATURE OF INDIVIDUAL
OR CORPORATE NAME

SECTION 00310 – FORM FOR SUB-BID

INSERT TRADE

Opening Date: 10:00 AM, June 6, 2012

A. Sub-Bid

To all General Bidders except those hereinafter expressly excluded:

B. SUB-BID: Undersigned proposes to furnish all labor and materials required for their sub-trade category for the "CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM," Waltham High School, 617 Lexington Street, Waltham, Massachusetts", in accordance with accompanying plans and specifications prepared by JFF Design, Architects, 24 Warwick Avenue, Waltham, MA 02452, dated May 30, 2012 for the contract price specified below, subject to additions and deductions according to terms of specifications.

C. SUB-BID CONTRACT PRICE:

The undersigned:

(Please type or print the business name of the bidding firm)

having visited the site of the above project and having familiarized myself with the local conditions affecting the cost of the work and with the contract documents, including Amendments and Addenda No's. _____, hereby proposes to furnish all labor, materials, tools, equipment, insurance, permits and taxes, and to do and lawfully perform all things as provided in the specifications, all in accordance with the contract documents, for the sum of:

D. Sub-Bid (in words) Dollars,

\$ _____ dollars and _____ cents

(\$ _____)

E. ALTERNATES:

For **Alternate No. 1** Add \$ _____ Deduct \$ _____
(Plumbing Filed Sub-Bid)

For **Alternate No. 2** Add \$ _____ Deduct \$ _____
(HVAC Filed Sub-Bid)

For **Alternate No. 2** Add \$ _____ Deduct \$ _____
(ELECTRICAL Filed Sub-Bid)

For **Alternate No. 3** Add \$ _____ Deduct \$ _____
(HVAC Filed Sub-Bid)

For **Alternate No. 3** Add \$ _____ Deduct \$ _____
(ELECTRICAL Filed Sub-Bid)

F. This sub-bid

May be used by any general bidder except:

 May only be used by the following general bidders:

(To exclude general bidders, insert "X" in one box only and fill in blank following that box. Do not answer D if no general bidders are excluded.)

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- G. The undersigned agrees that, if he is selected as sub-bidder, he will, within five days, Saturdays, Sundays and legal holidays excluded, after presentation of a subcontract by the general bidder selected as the General Contractor, execute with such general bidder a subcontract in accordance with the terms of this sub-bid and contingent upon the execution of the general contract, and, if requested to do so in the general bid by such general bidder, who shall pay the premiums, furnish a performance and payment bond of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Awarding Authority, in the full sum of the subcontract price.
- H. The names of all persons, firms and corporations performing such class of work or part thereof for which the section of the specifications for the sub-trade require a listing in this paragraph (including the undersigned if customarily furnished by persons on his own payroll and in the absence of a contrary provision in the specifications), the name of each such class of work, or part thereof, and the bid price for each such class of work or part thereof are:

<u>NAME</u>	<u>CLASS OF WORK</u>	<u>BID PRICE</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Do not give bid price for any class or part thereof furnished by undersigned.)

- I. The undersigned agrees that the above list of bids to the undersigned represents a bonafide bid based on hereinbefore described plans, specifications, and addenda, and that, if the undersigned is awarded the contract, s/he will be used for the work indicated at the amounts stated, if satisfactory to the Awarding Authority.
- J. The undersigned further agrees to be bound to the General Contractor by the terms of the hereinbefore described plans, specifications (including all general conditions stated therein), and addenda, and to assume toward him all the obligations and responsibilities that he, by those documents, assumes toward the Owner.
- K. The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all requirements of the plans and specifications:
1. Have been in business under present business name _____ years.
 2. Have ever failed to complete any work awarded? _____
 3. List three or more recent buildings with names of General Contractor and Architect on which you served as subcontractor for work of similar character as required for the above named buildings:

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 TITLE IX LOCKER ROOM

<u>BUILDING</u>	<u>ARCHITECT</u>	<u>GENERAL CONTRACTOR</u>	<u>AMOUNT OF CONTRACT</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

4. Bank Reference: _____

- L. The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he will comply fully with the laws and regulations applicable to awards of subcontractors subject to section 44 F of M.G.L. 149.
- M. The undersigned further agrees that, if the undersigned fails to perform his agreement to execute a subcontract with the General Contractor and furnish a performance and payment bond if requested to do so in the general bid by the general bidder, the bid deposit accompanying the copy of this bid filed with the Award Authority shall become and be the property of the Awarding Authority as liquidated damages. The undersigned understands that, if he so executes a subcontract with the General Contractor and furnishes a performance and payment bond, if requested to do so, the bid deposit will be returned within five (5) days after execution of the general contract.
- N. The undersigned represents that this proposal is made in good faith without fraud, collusion or connection of any kind with any other bidder for the same work, that the undersigned is competing solely on his own behalf without connection with, or obligation to, any undisclosed person or corporation, that no other person or corporation has any interest in the profits of the contract, that the undersigned has read the form of contract attached hereto and is fully informed in regard to all provisions thereof and to the plans and specifications therein referred to, and that the undersigned has visited the premises described in said form of contract and made his own examination of the place where the work is to be done and of all conditions pertaining to the work and has made his own estimate and from such examination and estimate makes this proposal.
- O. The Federal Social Security Identification Number of the sub-bidder (the number used on Employer's Quarterly Federal Tax Return, US Treasury Department Form 941) is:

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TITLE IX LOCKER ROOM

- P. In accordance with M.G.L., the undersigned certifies that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by OSHA that is at least 10 hours in duration at the time the employee begins work and shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

DATE: _____

Sub Bidder: _____
(Company Name)

By: _____
Signature of Authorized Representative

Title: _____
(Affix Seal)

Business Address: _____

City and State: _____

Telephone No. _____

NON-COLLUSION AFFIDAVIT

State of _____

County of _____

_____ being first duly sworn disposes and says that:

1. He / (She) is _____ of _____, the Sub-Bidder that has submitted the attached SUB-BID for the "CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM" Waltham High School, 617 Lexington Street, Waltham, Massachusetts"
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such SUB-BID is genuine and is not a collusive or sham Bid;
4. Neither the said Sub-Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Sub-Bidder, firm or person to submit a collusive or sham Bid in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Sub-Bidder, firm or person to fix the price or prices in the attached Sub-Bid or to fix any overhead, profit or cost element of the Sub-Bid price of the Sub-Bid price of any other Sub-Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Waltham or any person interested in the proposed Contract; and
5. The price or prices quoted in the attached Sub-Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Sub-Bidder or any of its agreements, representatives, owners, employees or parties in interest, including this affiant.

Signed _____
(title)

Subscribed and sworn before me

this _____ day of _____, 2012

My commission expires: _____

CERTIFICATE OF VOTE

I, _____,

Clerk of _____

hereby certify that, at a meeting of the Board of Directors of said Corporation duly held on _____ (Date must be earlier than date on contract)

at which a quorum was present and voting throughout, the following vote was duly passed and is now in full force and effect:

"VOTED": _____
(Name of Office authorized to sign for Corporation)

is hereby authorized, directed and empowered, in the name and on behalf of this Corporation, to sign, seal and with the corporate seal, execute, acknowledge and deliver all contracts, bonds and other obligations, and that such actions will be valid and binding upon this corporation for all purposes, and that a certificate of the Clerk of the corporation setting forth this vote shall be delivered to the City of Waltham and that this vote shall remain in full force and effect unless and until the same has been altered, amended or revoked by a subsequent vote of these directors. A certificate of such later vote of such directors be attested by the Clerk of this Corporation and delivered to the City of Waltham.

CERTIFICATE AS TO CORPORATE SUB-BIDDER

I, _____

certify that I am the _____

of the corporation named as sub-bidder in the within sub-bid form,

that _____,

who signed said sub-bid form on behalf of the sub-bidder was then _____ of said corporation, that I know his signature, that his signature thereto is genuine and that said sub-bid form was duly signed, sealed and executed for and in behalf of said corporation by authority of its governing body.

(Corporate seal)

Secretary-Clerk

Date

CERTIFICATION OF PAYMENT OF STATE TAXES

LEGISLATION ENACTED BY THE COMMONWEALTH OF MASSACHUSETTS EFFECTIVE JULY 1, 1983, REQUIRES THAT THE ATTESTATION BELOW BE SIGNED:

PURSUANT TO M.G.L. CH 62C, SEC. 49A, I CERTIFY UNDER PENALTIES OF PERJURY THAT I, TO THE BEST KNOWLEDGE AND BELIEF, HAVE FILED ALL STATE TAX RETURNS AND PAID ALL STATE TAXES REQUIRED UNDER LAW.

SOCIAL SECURITY NUMBER
FEDERAL ID NUMBER

SIGNATURE OF INDIVIDUAL
OR CORPORATE NAME

EXHAUST FAN SCHEDULE													
MARK	MODEL (FANTECH)	C.F.M.	E.S.P.	R.P.M.	DRIVE	FAN MOTOR HP	WATTS	AMPS MAX	V-PH-HZ	SERVING	MANUFACTURER	WEIGHT (LB)	NOTES
EF-1	FG-8	250	0.50	2550	DIR	-	119	1.14	120-1-60	COSMO LAB	FANTECH	10.0	1+2+3

NOTES: 1) FAN WITH EXHAUST DUCTING. 2) POWER WIRING BY ELECTRICAL CONTRACTOR. 3) ELECTRICAL TO INTERLOCK WITH UV

ALTERNATE NO. 2:
 (HVAC FILED SUB-BIDDER) SHALL REMOVE EXISTING UNIT VENTILATOR COMPLETELY AND PROVIDE NEW CUV AS SCHEDULED BELOW. RE-USE THE EXISTING OA LOUVER AND FLENUM AND PROVIDE NEW CONNECTION TO NEW CUV. PROVIDE NEW PIPING CONNECTIONS WITH NEW INSULATION TO THE EXISTING HWS/R PIPING.

UNIT VENTILATOR SCHEDULE (HEATING ONLY)														
TAG	CFM		ESP (IN)	HEATING COIL DATA			COOLING (DX) COIL DATA			MOTOR HP	MODEL (McQUAY)	REMARKS		
	SA (TOTAL)	OA (MIN)		TOT. MBH HEATING	GPM	EWT/LWT	Δ P (FT)	CAPACITY (MBH) TOTAL	EAT (db/wb)				LAT (db/wb)	
CUV-5	1500	375	0.0	64.3	2.0	180/116	0.65	-	-	-	-	1/3	UAHV-6-H15	1+2+3

NOTES: 1) ELECTRICAL POWER BASED ON 120-1-60. 2) PROVIDE WITH FULL PACKAGED CONTROLS, INCLUDING OA ECONOMIZER. 3) HEATING COIL BASED ON 70 °F EAT AND 109 °F LAT

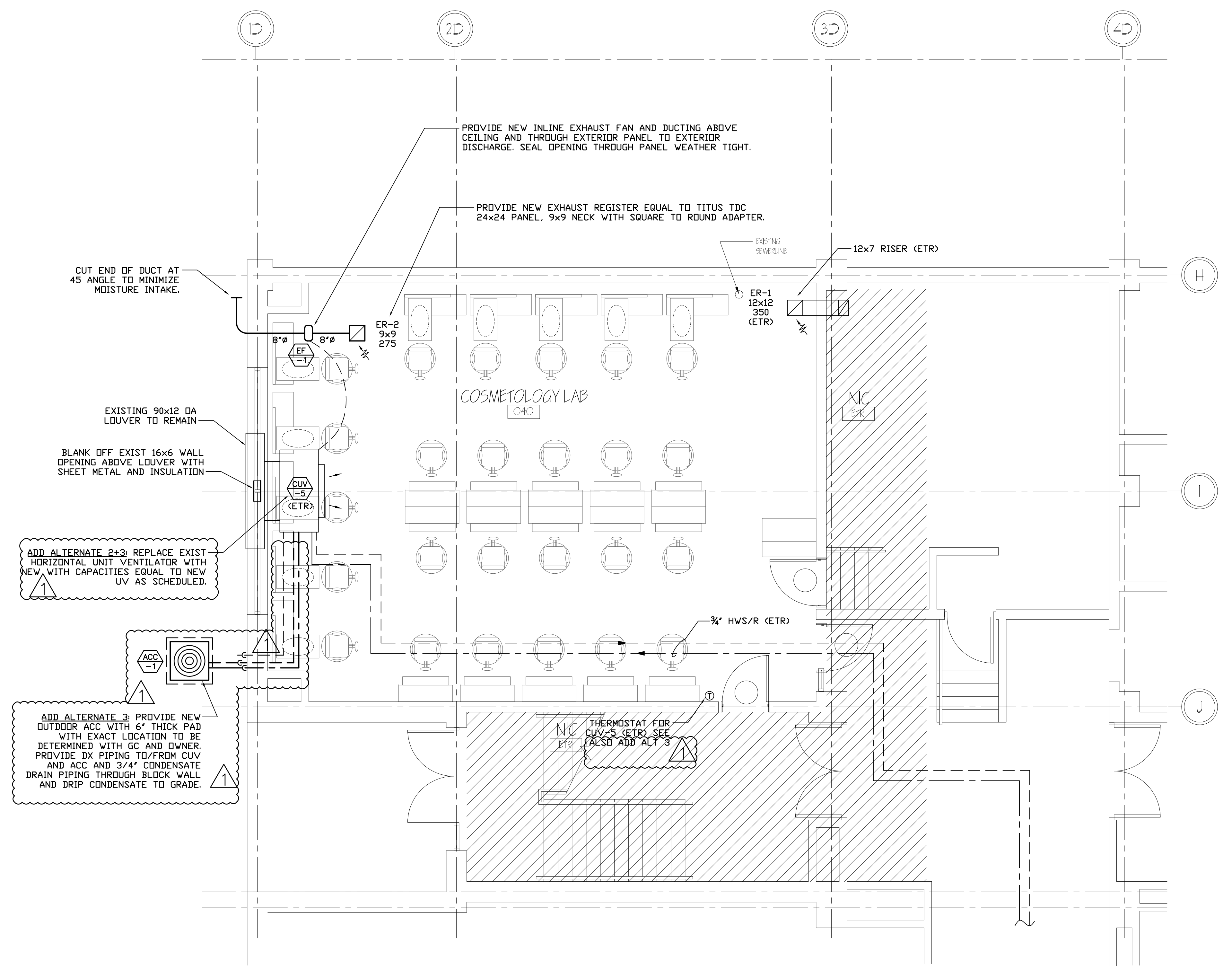
ALTERNATE NO. 3:
 HVAC FILED SUB-BIDDER SHALL PROVIDE PRICING TO UPGRADE THE NEW 1500 CFM OF ADD ALT 2 TO INCLUDE A DX COOLING COIL AS SCHEDULED BELOW AND SHALL PROVIDE AN OUTSIDE AIR COOLED CONDENSER WITH 6" THICK HOUSE KEEPING PAD AND REFRIGERANT PIPING TO/FROM THE NEW 1500 CFM CUV-5 AND THE NEW ACCU-1. INCLUDE PROVIDING NEW 1" COPPER CONDENSATE DRAIN PIPING FROM CUV-5 THROUGH EXTERIOR BLOCK WALL AND DRIP TO GRADE.

UNIT VENTILATOR SCHEDULE (HEATING ONLY)														
TAG	CFM		ESP (IN)	HEATING COIL DATA			COOLING (DX) COIL DATA			MOTOR HP	MODEL (McQUAY)	REMARKS		
	SA (TOTAL)	OA (MIN)		TOT. MBH HEATING	GPM	EWT/LWT	Δ P (FT)	CAPACITY (MBH) TOTAL	EAT (db/wb)				LAT (db/wb)	
CUV-5	1500	375	0.0	64.3	2.0	180/116	0.65	53.7	40.2	80/67	55.3/55.4	1/3	UAHV-6-H15	1+2+3

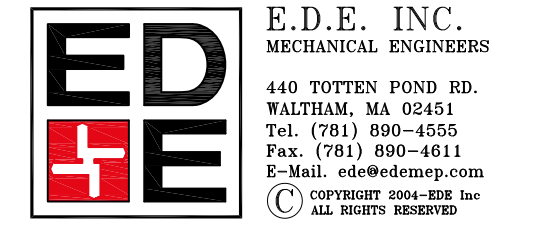
NOTES: 1) ELECTRICAL POWER BASED ON 120-1-60. 2) PROVIDE WITH FULL PACKAGED CONTROLS, INCLUDING OA ECONOMIZER. 3) HEATING COIL BASED ON 70 °F EAT AND 109 °F LAT

AIR COOLED CONDENSING UNIT SCHEDULE																
MARK	SERVES	NDM TONS	CAPACITY		POWER KW	COMPRESSORS			CONDENSER FAN			ELECTRICAL		MODEL (CARRIER)	NOTES	
			TOT	SENS		NO.	RLA	LRA	NO.	HP	FLA	MCA	CB			V-PH-HZ
ACC-1	CUV-5	5.0	58.8	46.8	n/a	1	26.4	134	1	1/4	1.2	34.2	50	208/230-3-60	24ACB4-60	1+2

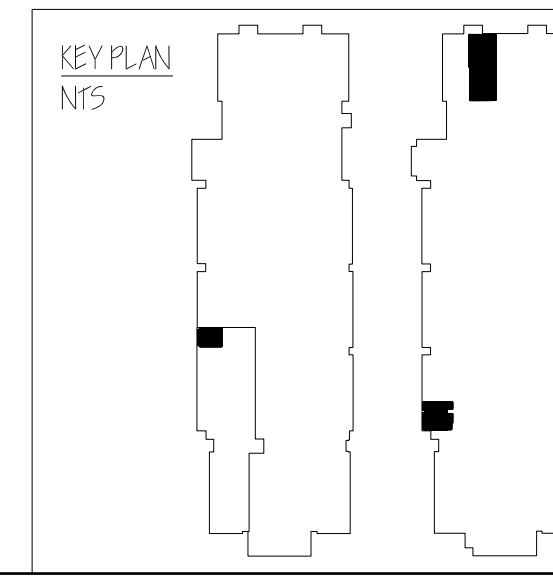
NOTES: 1) BASED ON R-410A REFRIGERANT. 2) CAPACITIES BASED ON OA= 95°F AND EAT = 75/67 Db/Wb



1 CONSTRUCTION PLAN - COSMETOLOGY
 1/4" = 1'-0"

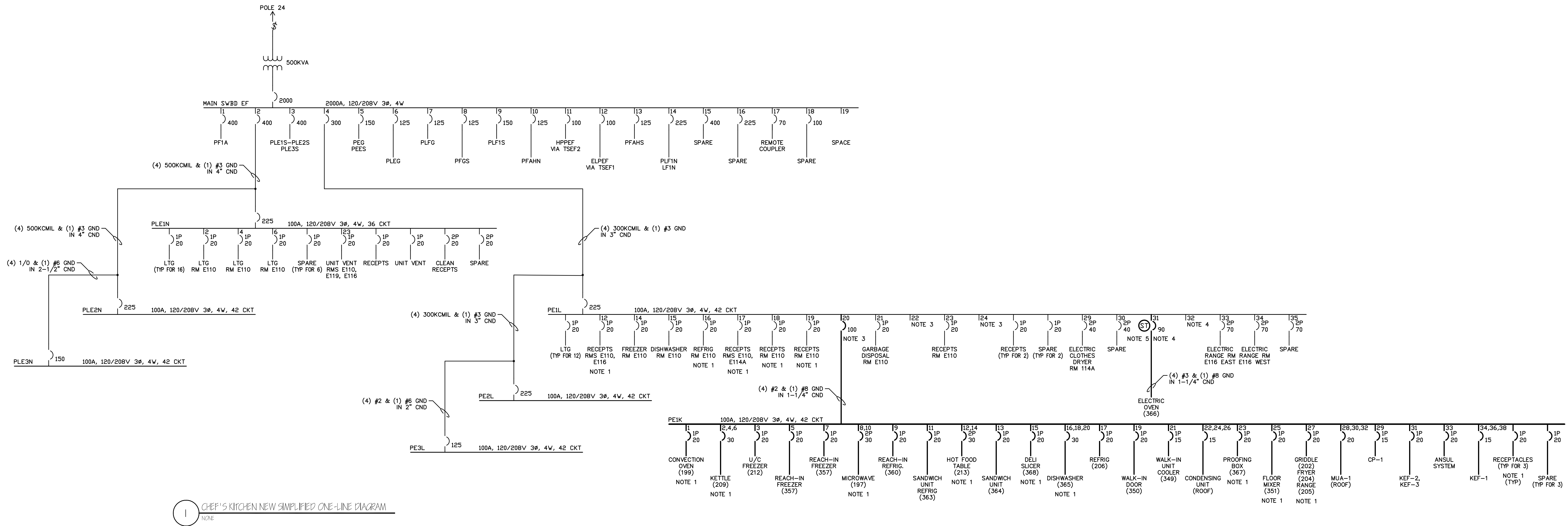


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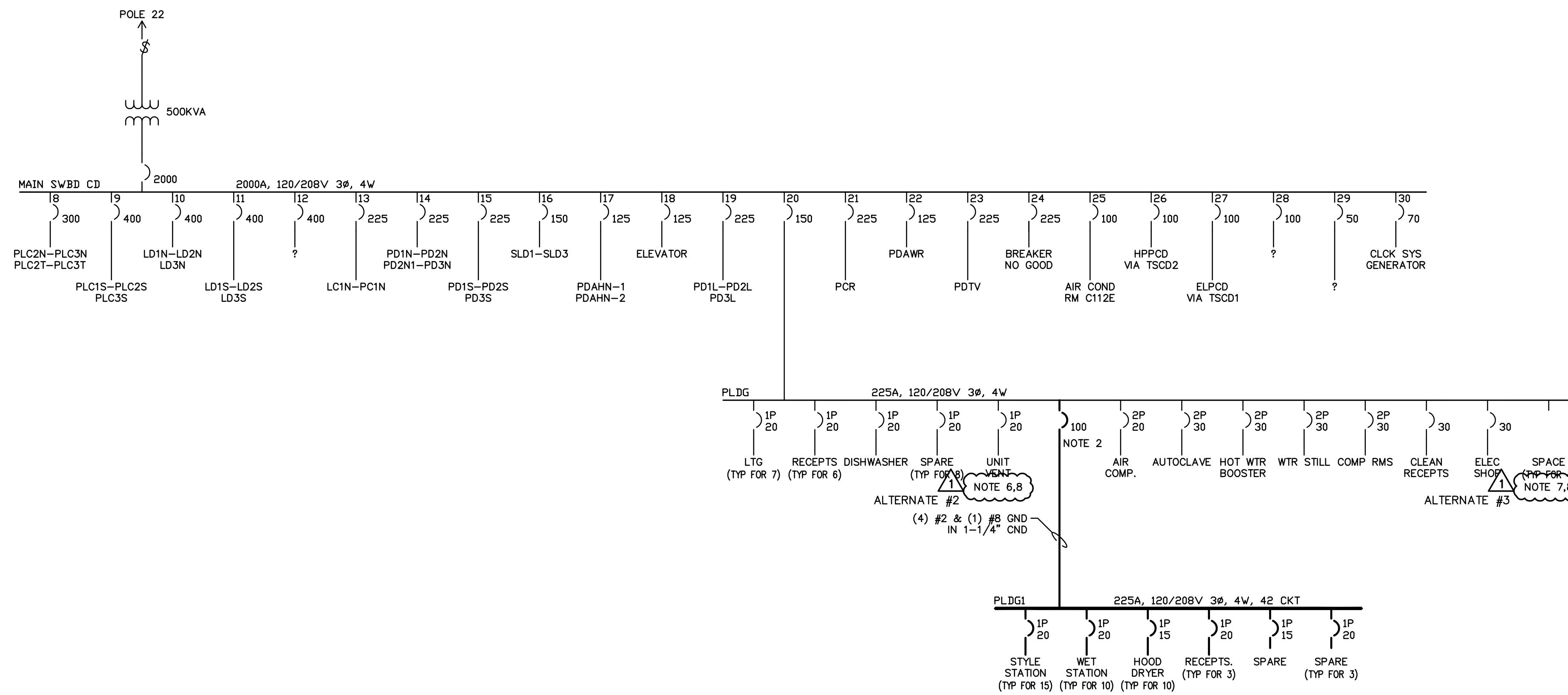


REV.	APPENDIX #1	DESCRIPTION	DATE
1			JUNE 1, 2012

JFF DESIGN ARCHITECTS & PLANNERS 78 WARRIOR AVENUE WALTHAM, MA 02452	PROJECT: WALTHAM HIGH SCHOOL CHEF'S KITCHEN, COSMETOLOGY LAB & TITLE IX LOCKER ROOM 617 LEXINGTON STREET WALTHAM, MA 02452
DRAWING TITLE: HVAC 1st FLOOR PLAN & SCHEDULES - COSMETOLOGY LAB	DRAWING NUMBER: HI.03
DATE: MAY 30, 2012	JOB#: 201209



1 CHEF'S KITCHEN NEW SIMPLIFIED ONE-LINE DIAGRAM
NONE



2 COSMOTOLOGY NEW SIMPLIFIED ONE-LINE DIAGRAM
NONE

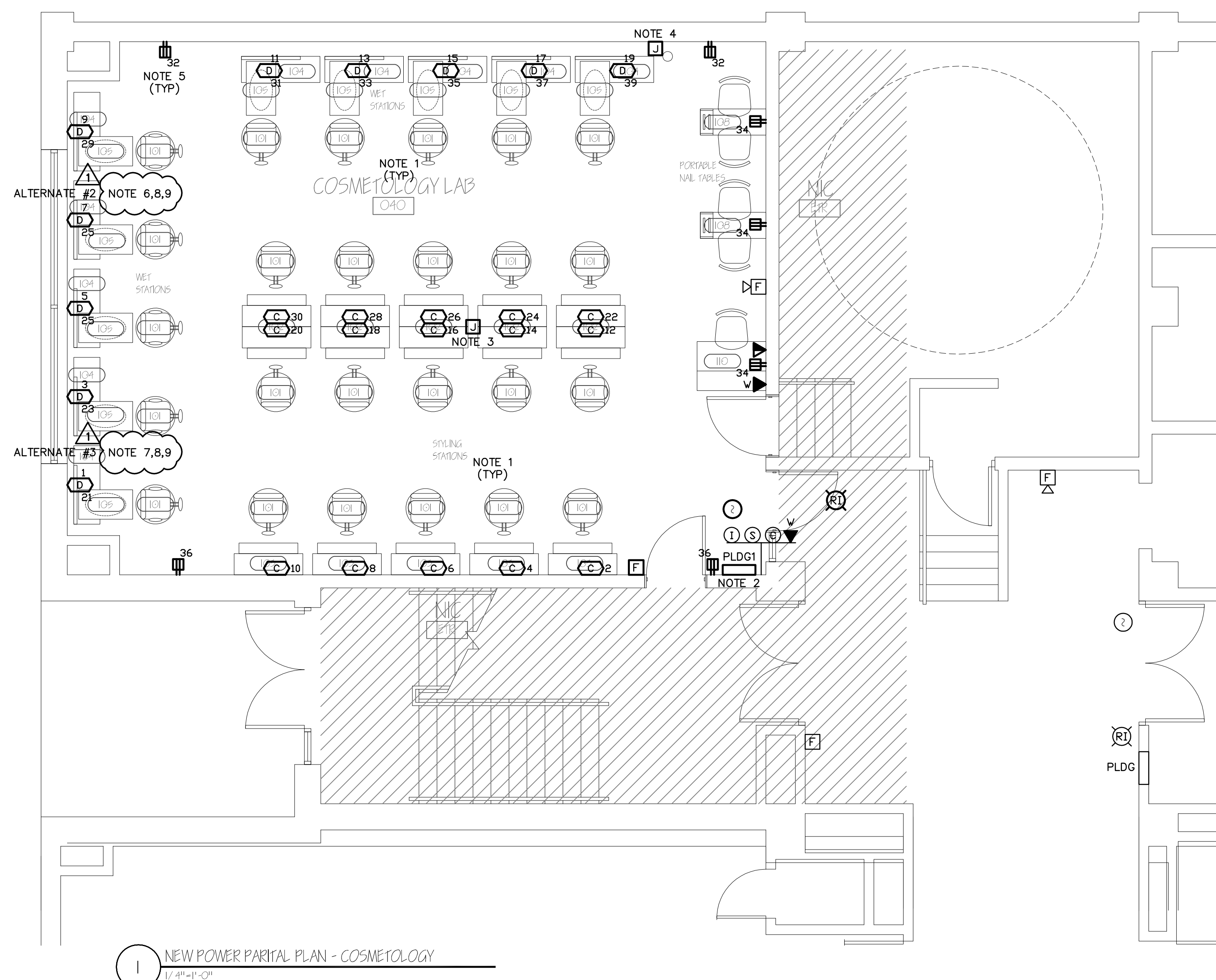
DRAWING NOTES:

- NOTE 1 PROVIDE ONE MECHANICALLY HELD CONTACTOR FOR EACH PANEL TO DE-ENERGIZE ALL EQUIPMENT INDICATED UPON HOOD SUPPRESSION SYSTEM OR EPO ACTIVATION. PROVIDE CONTACTOR WITH (2) ADDITIONAL 30A SPARE CONTACTS, ENCLOSURE, AND RESET PUSH BUTTON.
- NOTE 2 REMOVE EXISTING 30A CIRCUIT BREAKER FOR HEATER AND PROVIDE NEW 100A CIRCUIT BREAKER WITH HARDWARE AND FILLER PLATES AS REQUIRED.
- NOTE 3 REMOVE (3) EXISTING 20A, 1P CIRCUIT BREAKERS FOR ROOM E110 RECEPTACLES (CIRCUIT NUMBERS 20, 22, 24) AND PROVIDE NEW 100A, 3P CIRCUIT BREAKER WITH HARDWARE AND FILLER PLATES AS REQUIRED.
- NOTE 4 REMOVE (2) EXISTING 70A, 2P CIRCUIT BREAKERS FOR ELECTRIC RANGES IN ROOM E110 AND PROVIDE NEW 90A, 3P CIRCUIT BREAKER WITH HARDWARE AND FILLER PLATES AS REQUIRED.
- NOTE 5 SHUNT TRIP TO OPERATE FOR HOOD SUPPRESSION SYSTEM OR EPO ACTIVATION. REFER TO POWER PLAN ON E5.01 FOR MORE INFORMATION.
- NOTE 6 UNDER ALTERNATE #2, REPLACE EXISTING 20A, 1P CIRCUIT BREAKER WITH NEW 15A, 1P CIRCUIT BREAKER.
- NOTE 7 UNDER ALTERNATE #3, PERFORM WORK UNDER ALTERNATE #2, AND IN ADDITION, PROVIDE NEW 50A, 2P CIRCUIT BREAKER WITH HARDWARE AND FILLER PLATES AS REQUIRED IN PANEL PLDG (POSITION #32,34) FOR NEW ACCU.
- NOTE 8 REFER TO NEW POWER PLAN ON DRAWING E5.03 AND HVAC DRAWINGS FOR MORE INFORMATION.

DRAWING NOTES:

- EXISTING
- NEW

1	APPENDIX #1	JUNE 1, 2012
REV.	DESCRIPTION	REVISION
		DWN BY: GW
		SCALE: AS NOTED
PROJECT: WALFRAM HIGH SCHOOL CHEF'S KITCHEN, COSMOTOLOGY, & TITLE IX LOCKER ROOM 617 LEXINGTON STREET WALFRAM, MA 02452		DRAWING NUMBER: E4.01
DRAWING TITLE: NEW ELECTRICAL ONE-LINE DIAGRAMS		COPY: 201205



1 NEW POWER PARTIAL PLAN - COSMETOLOGY
1/4" = 1'-0"

COSMETOLOGY EQUIPMENT LEGEND

- (C) 2 STYLE STATION PROVIDE JUNCTION BOX AND BRANCH CIRCUIT AS INDICATED FOR STYLE STATION. -"2" DENOTES BRANCH CIRCUIT.
- (D) 1/3 WET STATION & HOOD DRYER PROVIDE JUNCTION BOX AND BRANCH CIRCUIT AS INDICATED FOR WET STATION AND HOOD DRYER. -"1" DENOTES BRANCH CIRCUIT FOR WET STATION. -"3" DENOTES BRANCH CIRCUIT FOR HOOD DRYER.
- GENERAL NOTE: COORDINATE LOCATION OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES.

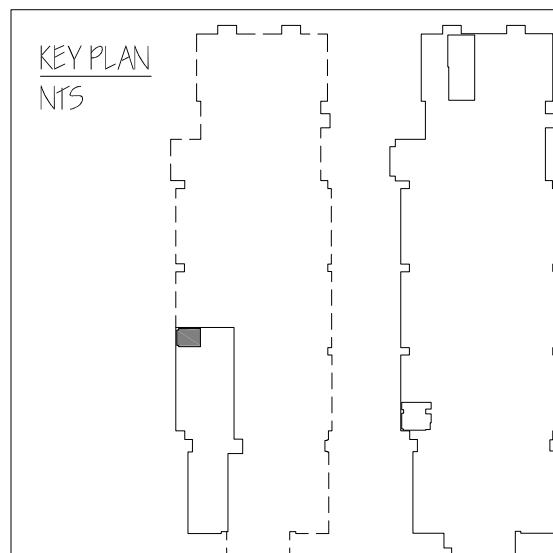
DRAWING NOTES:

- NOTE 1 DEMOLISH DEVICES AS REQUIRED AND REMOVE WIRING BACK TO POWER SOURCE. TRACE AND IDENTIFY BRANCH CIRCUIT OF ANY DEVICE TO REMAIN.
- NOTE 2 PROVIDE NEW 225A MAIN LUG, 120/208V, 3Ø, 4W, 25KAIC, 42 CIRCUIT PANEL WITH GROUNDING BUS AND DOOR-IN-DOOR TRIM. PROVIDE (10) 15A, 1P, AND (32) 20A, 1P BREAKERS. PANEL TO BE SURFACE MOUNTED ON METAL CHANNEL WITHIN EXISTING CASEWORK CABINET. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON E4.01 FOR MORE INFORMATION.
- NOTE 3 PROVIDE JUNCTION BOX ABOVE CEILING WITH POWER POLE TO FLOOR. PROVIDE 3/4" CONDUIT BETWEEN STYLE STATIONS (HEIGHT TO BE DETERMINED BY STYLE STATION CONNECTION POINT) AND JUNCTION BOXES AS REQUIRED. PROVIDE BRANCH CIRCUITS FOR STYLE STATIONS AS INDICATED.
- NOTE 4 PROVIDE JUNCTION BOX ABOVE CEILING WITH BRANCH CIRCUITS FOR WET STATIONS AND HOOD DRYERS AS INDICATED. BRANCH CIRCUITS WILL RUN DOWN WALL NEXT TO PIPE AND INSIDE NEW HALF-WALL TO EACH STATION. PROVIDE CONNECTION TO EACH UNIT AS REQUIRED.
- NOTE 5 ALL CIRCUIT NUMBERS REPRESENT PANEL PLDG1.

- ALTERNATE #2 NOTE 6 UNDER ALTERNATE #2, DISCONNECT EXISTING UNIT VENTILATOR FOR REMOVAL BY OTHERS. CONNECT NEW UNIT VENTILATOR ON SAME CIRCUIT, AND PROVIDE NEW WIRING AND CONNECTORS AS REQUIRED.
- ALTERNATE #3 NOTE 7 UNDER ALTERNATE #3, PERFORM WORK PER ALTERNATE #2, AND IN ADDITION, PROVIDE LIQUIDTIGHT FLEXIBLE METAL CONDUIT CONNECTION AND WEATHERPROOF SERVICE SWITCH FOR ACCU. COORDINATE CONNECTION POINT IN THE FIELD WITH HVAC CONTRACTOR.
- NOTE 8 PROVIDE NAMEPLATE INDICATING UNIT NUMBER, PANEL NAME, AND CIRCUIT NUMBER.
- NOTE 9 REFER TO ONE-LINE DIAGRAM ON E4.01 AND HVAC DRAWINGS FOR MORE INFORMATION.

DRAWING NOTES:

- EXISTING
- NEW



1	APPENDIX #1	JUNE 1, 2012
REV#	DESCRIPTION	REVISED
 JFF DESIGN ARCHITECTS & PLANNERS <small>31 WASHINGTON AVENUE WALTHAM, MA 02452</small>		DRAWN BY: GW SCALE: AS NOTED DATE: MAY 30, 2012 DRAWING NUMBER: E5.03
PROJECT: WALFRAM HIGH SCHOOL CHEF'S KITCHEN, COSMETOLOGY, & TITLE IX LOCKER ROOM 617 LEXINGTON STREET WALFRAM, MA 02452		DRAWING TITLE: NEW PARTIAL POWER PLAN - COSMETOLOGY DATE: MAY 30, 2012 DRAWING NUMBER: E5.03
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