Collins Architectural Group, p.s.
950 12th Avenue, Suite 200
Longview, WA 98632

Addendum No. 1

Page No. 1 of 10

Date: March 1, 2017

Project: **E.I.F.S. & HVAC**
Longview Readiness Center
Project Number 2016-639
Longview, WA

Notice to Contractor:
The following changes in the Contract Documents, including the Drawings and Specifications, constitute this Addendum. All changes included in Addenda shall become a part of the Contract Documents for this Project. Any changes herein offset only the specific Drawings or Notes on Drawings or words or paragraphs in Specifications referenced to and the balance of the Drawings shall remain in full force.

ARCHITECTURAL SPECIFICATION

ITEM	SHEET NO./ SECTION NO.	DESCRIPTION
1.1	Pre-Bid Walkthru	See attached list for the contractors that attended the pre-bid walkthrough held on February 28, 2017.
1.2	Completion Time	See attached revised bid form with new substantial completion date of September 30, 2017.
1.3	M1	See attached revised sheet M1 which has the following changes: 1. Added contact information for Delta Controls 2. Added notes to the schedules to require BACNet interface to allow connection to Delta DDC.
1.4	M2	See attached revised sheet M2 which has the following changes: 1. Added building DDC control locations (Boiler Room) 2. Changed demolition plans to reflect the removal of the existing fin-tube at all locations of new HVAC installation. 3. Added existing heating fan unit at bathroom location to remain and be reconnected to updated control system. 4. Added condensate drain routing from FC's to exterior wall terminations.
1.5	Paint	Patch wall and touch up paint where fin-tubes and covers are removed.
1.6	Work Hours	The work on the interior and exterior of the building shall be limited to 10 hour days Tuesday – Friday.

1.7	EIFS Work	There are fall protection cables mounted to the concrete wall at the upper clerestory area. These cable are to be removed prior to installation of the EIFS. The cables do not need to be reinstalled.
1.8	Insurance	See attached insurance certificate that was missing from the project manual.

PRODUCT APPROVALS

ITEM	APPROVED SUBSTITUTION
EIFS	Sto
Multi-zone Split System	LG
Energy Recovery ventilator	LG ARVU
Unit Heater	Sterling

END OF ADDENDUM 1

PRE-BID CONFERENCE

PROJECT TITLE: Longview Readiness Center EIFS & HVAC

PROJECT NO: 2016-639

LOCATION: Longview Readiness Center

TIME: 1:00 PM

DATE: February 28, 2017

ATTENDEES

NAME	COMPANY	PHONE	E-mail
Minh Vo	WA – CFMO	253-512-8463	minh.vo@mil.wa.gov
John Bean	Mil Dept	253-377-8245	john.bean@mil.wa.gov
Craig Collins	Collins Arch	360-425-0000	craigc@collinsarchigroup.com
Howard J. Hines	ART	360-606-9277	hhines@appliedrestoration.com
Alex Erickson	Energy Electric	360-524-0573	alex@energyelec.net
Dwight Tolmie	HMS	503-220.0394	dwightt@HMSInc.us
Alfredo Linares	HARBOR CC.	(253) 227 4477	Alfredo@HARBORconstruction.com
Tim DAVIS	JHKelly	CELL 360 921 6581	TDAVIS@JHKelly.com
Michael Heim	mheim@jhkelly.com	J. H. Kelly	360-261-0789
Jamey Jensen	H&N sheet metal	(360) 578-9900	jameyehnsheetmetal.net 360-430-7113

Project Name: **Exterior Insulation Finish System (EIFS) & HVAC** **Project number: 2016-639**
Longview - WA

STATE OF WASHINGTON
MILITARY DEPARTMENT
CONSTRUCTION & FACILITIES MANAGEMENT OFFICE
BUILDING #36 QUARTERMASTER ROAD
CAMP MURRAY, WASHINGTON, 98430-5052

B I D P R O P O S A L - REVISED

In compliance with the contract documents, the following bid proposal is submitted:

1. BASE BID: Fill out one bid item as described below (*Including Trench Excavation Safety Provisions)*

_____ *$*_____
(Please print dollar amount in space abow) **(Do not include Washington State Sales Tax)**

TRENCH EXCAVATION SAFETY PROVISIONS $ 0.00
(Included also in Base Bid)

If the bid amount contains any work which requires trenching exceeding a depth of four feet, all costs for trench safety shall be included in the Base Bid and indicated above for adequate trench safety systems in compliance with Chapter 39.04 RCW. 49.17 RCW and WAC 296-155-650. Bidder must include a lump sum dollar amount in blank above (even if the value is $0.00) to be responsive.

The Owner reserves the right to accept or reject any or all bid prices within sixty (60) days of the bid date.

Time for Completion

The undersigned hereby agrees to complete all the work under the Base Bid ~~within 9**0 calendar days** after the date of Notice to Proceed~~ by September 30, 2017.

The apprentice labor hours required for this project are 0 % of the total labor hours. The undersigned agrees to utilize this level of apprentice participation. Voluntary workforce diversity goals for this apprentice participation are identified in the Instructions to Bidders and Supplemental Conditions. Bidders may contact the Department of Labor & Industries, Apprenticeship Section, to obtain information on available aprenticeship programs.

Apprenticeship Requirements

Voluntary numerical MWBE goals of 10% MBE and 6% have been established for this project. Achievement of the goals is encouraged. Bidders may contact the Office of Minority and Womens Business Enterprise to obtain information on certified firms.

Liquidated Damages

The undersigned agrees to pay the Owner as liquidated damages the sum of $ **200.00** for each consecutive calendar day that is in default after the Contract Time. Liquidated damages shall be deducted from the contract by change order.

Receipt of Addenda

Receipt of the following addenda is acknowledged:

Addendum No. _____ Addendum No. _____
Addendum No. _____ Addendum No. _____

Name of Firm _____
NOTE: *If bidder is a corporation, write State of Incorporation; if a partnership, give full names and addresses of all parties below.*

Signed by _____, Official Capacity _____

Print Name _____

Address _____

City _____ State _____ Zip Code _____

Date _____ Telephone _____ FAX _____

State of Washington Contractor's License No. _____

Federal Tax ID # _____ DUNS #: _____

Form
S.F. 500 A
(7/2/92)

State of Washington

CERTIFICATE OF INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED (Legal name and business address)	CERTIFICATE HOLDER: STATE OF WASHINGTON DEPT. OF GENERAL ADMINISTRATION DIVISION OF E&A SERVICES 206 GENERAL ADMINISTRATION BUILDING OLYMPIA, WASHINGTON 98504-1012	CONTRACT NUMBER DATE ISSUED:

PROJECT DESCRIPTION / LOCATIONS / VEHICLES / RESTRICTIONS / SPECIAL ITEMS:

This is to certify that policies of Insurance listed below have been issued to the Insured named above for the policy period indicated.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	Date Policy Effective (MM/DD/YY)	Date Policy Expires (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
	GENERAL LIABILITY ☐ Commercial General Liability ☐ Claims Made ☐ Occurrence ☐ Owner's & Contractors Protection ☐ ☐ Deductible $				General Aggregate	$
					Products Comp/Ops Aggregate	$
					Personal & Advertising Injury	$
					Each Occurrence	$
					Fire Damage (Any One Fire)	$
					Medical Expense (Any One Person)	$
	AUTOMOBILE LIABILITY ☐ Any Auto ☐ All Owned Autos ☐ Scheduled Autos ☐ Hired Autos ☐ Non-Owned Autos ☐ Garage Liability ☐ Deductible $				CSL	$
					Bodily Injury (per person)	$
					Bodily Injury (per accident)	$
					Property Damage	$
	EXCESS LIABILITY ☐ ☐ Other Than Umbrella Form				Each Occurrence $	Aggregate $
	WORKERS COMPENSATION AND EMPLOYER'S LIABILITY				STATUTORY	
					$	(Each Accident)
					$	(Disease Policy Limit)
					$	(Disease-Each Employee)
	OTHER					

ADDITIONAL PROVISIONS

The State of Washington is included as additional insured as related to the above mentioned project.
Should any of the above described policies be cancelled before the expiration date thereof, the issuing Company must deliver or mail not less than a 45 days written notice to the above Certificate Holder, per RCW 48.18.290

COMPANIES AFFORDING COVERAGE		ISSUING COMPANY, AGENT OR REPRESENTATIVE	
NOTE: Attach a separate sheet to this certificate giving all the company names and their percentage of coverage, if clarification is needed,		NAME:	
Company Letter	A	ADDRESS:	
	B		
	C	Authorized Signature	
	D	Title	
	E	Signature Date	
		Signee Name	
		Telephone No.	

INSTRUCTIONS TO CONTRACTOR'S INSURANCE COMPANY

(Information keyed to the State's Short Form General Conditions)

1 Section 2.02 - COVERAGE LIMITS INSURANCE COVERAGE CERTIFICATES

A. Insurance Coverage Certificates

The Contractor shall furnish acceptable proof of insurance coverage on the state of Washington Certificate of Insurance Form SF500A dated 07/02/92 or approved.

B. Required Coverages

1) For a contract less than $100,000, the coverage required is:

a) Public Liability Insurance - The Contractor shall at all times during the term of this contract, at its cost and expense, carry and maintain general public liability insurance, including contractual liability, against claims for bodily injury, personal injury, death or property damage occurring or arising out of services provided under this contract. This insurance shall cover claims caused by any act, omission, or negligence of the Contractor or its officers, agents, representatives, assigns or servants. The limits of liability insurance, which may be increased as deemed necessary by the contracting parties, shall be:

Each Occurrence	$1,000,000
General Aggregate Limits	1,000,000
(other than products - commercial operations)	
Products - Commercial Operations Limit	1,000,000
Personal and Advertising Injury Limit	1,000,000
Fire Damage Limit (any one fire)	50,000
Medical Expense Limit (any one person)	5,000

b) If the contract is for underground utility work, then the Contractor shall provide proof of insurance for that above in the form of Explosion, Collapse and Underground (XCU) coverage.

c) Employers Liability on an occurrence basis in an amount not less than $1,000,000 per occurrence.

2) For all Contracts - Automobile Liability: in the event that services delivered pursuant to this contract involve the use of vehicles or the transportation of clients, automobile liability insurance shall be required. If Contractor-owned personal vehicles are used, a Business Automobile Policy covering at a minimum Code 2 "owned autos only" must be secured. If Contractor employee's vehicles are used, the Contractor must also include under the Business Automobile Policy Code 9, coverage for non owned autos. The minimum limits for automobile liability is: $1,000,000 Per Occurrence, using a combined single limit for bodily injury and property damage.

3) For contracts for Hazardous Substance Removal (Asbestos Abatement, PCB Abatement, etc.).

a) In addition to providing insurance coverage for the project as outlined above, the Contractor shall provide Environmental Impairment Liability insurance for the hazardous substance removal as follows:

EACH OCCURRENCE	AGGREGATE
$500,000	$ 1,000,000

or $1,000,000 each occurrence/aggregate bodily injury and property damage combined single limit.

1) Insurance certificate must state that the insurer is covering hazardous substance removal.

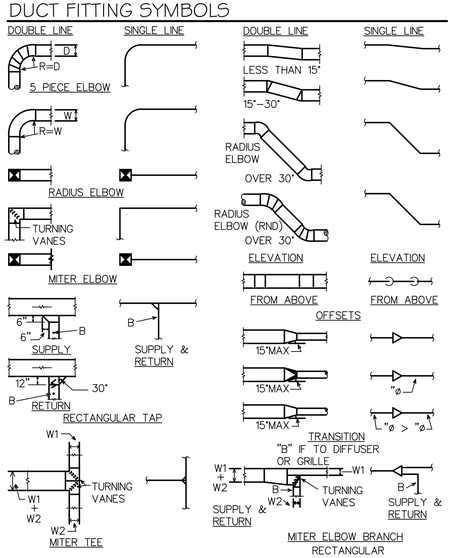
2) Should this insurance be secured on a "claims made" basis, the coverage must be continuously maintained for one year following the projects "final completion" through official completion of the project, plus one year following.

b) For contracts where hazardous substance removal is a subcomponent of contracted work, the general contractor shall provide to the Owner a certificate of insurance for coverage as defined in 5a. above. The State of Washington must be listed as an additional insured. This certificate of insurance must be provided to the Owner prior to commencing work.

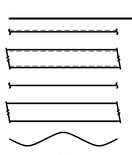
2.2 Item A.7 Builder's Risk - Add the following: "For projects not involving buildings an Installation Floater is acceptable for the Builder's Risk Insurance."

2.3 Payment and Performance Bonds - Add to the end of the paragraph: AIA Payment Bond and Performance Bond forms A312 may be used for this contract. These forms must be obtained from the Contractor's bonding company. The Payment Bond shall cover payment to laborers and mechanics, including payments to employee Benefit Funds, and payments to subcontractors, material suppliers, and persons who shall supply such person or persons, or subcontractors with materials and supplies.

DUCT FITTING SYMBOLS



HVAC SYMBOLS



	INTERNALLY INSULATED SHEET METAL (SINGLE LINE)
	INTERNALLY INSULATED SHEET METAL (DOUBLE LINE)
	BARE OR INSULATED METAL DUCT (SINGLE LINE)
	BARE OR INSULATED METAL DUCT (DOUBLE LINE)
	FLEX DUCT (SINGLE LINE)
	ROUND DUCT: UP OR DOWN
B	BUTTERFLY DAMPER
BDD	BACK DRAFT DAMPER
OBD	OPPOSED BLADE DAMPER
OAD–1	OUTSIDE AIR DAMPER No.1
SD	SMOKE DETECTOR
T	THERMOSTAT: WALL MOUNTED
S	SENSOR
HSW	HIGH SIDE WALL SUPPLY OR RETURN
LSW	LOW SIDE WALL SUPPLY OR RETURN
ECG	EGGCRATE GRILLE
RA	RETURN AIR: UP OR DOWN
OSA	OUTSIDE AIR: UP OR DOWN
SA	SUPPLY AIR: UP OR DOWN
110 ←	AIR VOLUME, CFM
8x8 ←	DIFFUSER NECK SIZE
4W ←	BLOW DIRECTIONS
RB	REBALANCE EXISTING DIFFUSER TO THIS CFM
(30) —	RELIEF AIR CFM THRU UNDERCUT OF DOOR AND FLOW DIRECTION
HP–1	HEAT PUMP NO. 1
FC–1	FAN COIL NO. 1
ERV–1	ENERGY RECOVERY VENTILATOR NO. 1
UH–1	UNIT HEATER NO. 1
C	CONNECT TO EXISTING
CI	REMOVE TEMPORARY CAP & CONNECT
E	EXISTING TO REMAIN
K	CAP EXISTING
KI	TEMPORARILY CAP EXISTING
N	NEW
R	RELOCATE EXISTING
X	REMOVE EXISTING
W/	WITH

OUTSIDE AIR (VENTILATION) REQUIREMENTS

ROOM	AREA	NET AREA	OCCUPANCY *	VENTILATION REQ: PEOPLE OSA RATE	VENTILATION REQ: AREA OSA RATE	VENTILATION REQ: TOTAL	VENTILATION PROVIDED	SYSTEM
– STORAGE	192 FT2	192 FT2	5 OCC/1000 FT2 = 0.96	5 CFM/OCC = 4.8 CFM	0.06 CFM/FT2 = 11.52 CFM	16.32 CFM	20 CFM	ERV–1
– CONFERENCE ROOM	1094 FT2	1094 FT2	50 OCC/1000 FT2 = 54.7	5 CFM/OCC = 273.5 CFM	0.06 CFM/FT2 = 65.64 CFM	339.1 CFM	340 CFM	ERV–1
– OFFICE 1	170 FT2	170 FT2	5 OCC/1000 FT2 = 0.85	5 CFM/OCC = 4.25 CFM	0.06 CFM/FT2 = 10.2 CFM	14.45 CFM	15 CFM	ERV–1
– OFFICE 2	290 FT2	290 FT2	5 OCC/1000 FT2 = 1.45	5 CFM/OCC = 7.25 CFM	0.06 CFM/FT2 = 17.4 CFM	24.65 CFM	25 CFM	ERV–1
– KITCHEN	314 FT2	314 FT2	20 OCC/1000 FT2 = 6.28	7.5 CFM/OCC = 47.1 CFM	0.12 CFM/FT2 = 37.68 CFM	84.78 CFM	85 CFM	ERV–1
– OFFICE 3	143 FT2	143 FT2	5 OCC/1000 FT2 = 0.715	5 CFM/OCC = 3.575 CFM	0.06 CFM/FT2 = 8.58 CFM	12.16 CFM	15 CFM	ERV–1
			64.955	**OCCUPANT DIVERSITY = 1.00**	**AIR DISTRIBUTION EFF. = 1**	**491.5 CFM**	**500 CFM**	**ERV–1**
– EQUIPMENT ROOM	332 FT2	332 FT2	5 OCC/1000 FT2 = 1.66	5 CFM/OCC = 8.3 CFM	0.06 CFM/FT2 = 19.92 CFM	28.22 CFM	60 CFM	ERV–2
– EQUIPMENT STORAGE	188 FT2	188 FT2	5 OCC/1000 FT2 = 0.94	5 CFM/OCC = 4.7 CFM	0.06 CFM/FT2 = 11.28 CFM	15.98 CFM	40 CFM	ERV–2
– OFFICE 4	271 FT2	271 FT2	5 OCC/1000 FT2 = 1.355	5 CFM/OCC = 6.775 CFM	0.06 CFM/FT2 = 16.26 CFM	23.04 CFM	50 CFM	ERV–2
– OFFICE 5	214 FT2	214 FT2	5 OCC/1000 FT2 = 1.07	5 CFM/OCC = 5.35 CFM	0.06 CFM/FT2 = 12.84 CFM	18.19 CFM	40 CFM	ERV–2
– HALLWAY	94 FT2	94 FT2	– OCC/1000 FT2 = –	– CFM/OCC = – CFM	0.06 CFM/FT2 = 5.64 CFM	5.64 CFM	20 CFM	ERV–2
			5.025	**OCCUPANT DIVERSITY = 1.00**	**AIR DISTRIBUTION EFF. = 1**	**91.07 CFM**	**210 CFM**	**ERV–2**

* PER ASHRAE 62.1–2010 TABLE 6–1 AND 2012 IMC TABLE 403.3 WITH WASHINGTON AMENDMENTS.

FAN COIL UNIT SCHEDULE (MITSUBISHI)

DESIG	CFM	EXT. S.P.	MOTOR WATTS (1)	COOLING CAPACITY (MBH) (2)	HEATING CAPACITY (MBH) (3)	WEIGHT LBS	MODEL NUMBER
FC–1	280	–	24	6.0	7.2	22	MSZ–GL06NA–U1 (4)
FC–2	490	–	24	14.0	18.0	22	MSZ–GL15NA–U1 (4)
FC–3	490	–	24	14.0	18.0	22	MSZ–GL15NA–U1 (4)
FC–4	360	–	24	12.0	14.4	22	MSZ–GL12NA–U1 (4)
FC–5	360	–	24	9.0	10.9	22	MSZ–GL09NA–U1 (5)
FC–6	360	–	24	12.0	14.4	22	MSZ–GL12NA–U1 (5)
FC–7	280	–	24	6.0	7.2	22	MSZ–GL06NA–U1 (5)
FC–8	280	–	24	6.0	7.2	22	MSZ–GL06NA–U1 (5)
FC–9	280	–	24	6.0	7.2	22	MSZ–GL06NA–U1 (5)
FC–10	360	–	24	9.0	10.9	22	MSZ–GL09NA–U1 (6)
FC–11	360	–	24	9.0	10.9	22	MSZ–GL09NA–U1 (6)
FC–12	360	–	24	12.0	14.4	22	MSZ–GL12NA–U1 (6)
FC–13	280	–	24	6.0	7.2	22	MSZ–GL06NA–U1 (6)

— ALTERNATE BID NO. 1

(1) 208–1ø UNLESS NOTED OTHERWISE
(2) 80.0°F DB, 67.0°F WB ENT COIL, 95°F OUTSIDE
(3) 47°F DB, 43°F WB OUTSIDE
(4) MATCHED WITH HP–1
(5) MATCHED WITH HP–2
(6) MATCHED WITH HP–3

HEAT PUMP SCHEDULE (MITSUBISHI)

DESIG	NOM. COOL CAPACITY	NOM. HEATING CAPACITY	SEER	HSPF	WEIGHT LBS	MODEL NUMBER
HP–1	48.0	54.0	18.9	11.0	269	MXZ–8C48NA (1)(2)(5)
HP–2	40.5	45.0	19.0	11.0	189	MXZ–5C42NA (3)(5)
HP–3	35.4	36.0	19.10	11.3	137	MXZ–4C36NA (4)(5)

— ALTERNATE BID NO. 1

(1) MATCHED WITH FC–1,2,3 & 4
(2) PROVIDE WITH PAC–MKA50BC BRANCH BOX
(3) MATCHED WITH FC–5,6,7,8 & 9
(4) MATCHED WITH FC–10,11,12 & 13
(5) PROVIDE BACNET CONTROL INTERFACE FOR CONNECTION TO BUILDING CONTROL SYSTEM.

UNIT HEATER SCHEDULE

DESIG	MANUFACTURER AND MODEL	GAS INPUT	GAS OUTPUT	EFF.	WEIGHT
UH–1	LENNOX LF24–45A	45 MBH	36.5 MBH	81%	63 LBS

— ALTERNATE BID NO. 2

HEAT RECOVERY VENTILATOR

DESIG	SUPPLY CFM	EXHAUST CFM	SP	EFFICIENCY	MOTOR	WEIGHT	MANUFACTURER AND MODEL NO.
ERV–1	500	500	0.5"	67%	605 W	132 LBS	LOSSNAY LGH–F600RX5–E1 (1)(2)
ERV–2	210	210	0.5"	70%	300 W	73 LBS	LOSSNAY LGH–F300RX5–E1 (1)(2)

— ALTERNATE BID NO. 1

(1) CONTROLLED BY TIME CLOCK, ON DURING OCCUPIED PERIODS.
(2) PROVIDE BACNET CONTROL INTERFACE FOR CONNECTION TO BUILDING CONTROL SYSTEM.

MECHANICAL CODE NOTES:
SECTIONS LISTED REFER TO THE 2015 WASHINGTON STATE ENERGY CODE

EQUIPMENT SIZING –
LOAD CALCULATIONS AND EQUIPMENT SIZING PER SECTIONS C403.2.1 AND C403.2.2.

VENTILATION PER SECTION C403.2.6 AND CHAPTER 4 OF THE 2015 IMC.

HVAC CONTROLS –
THERMOSTATS TO BE 7 DAY PROGRAMMABLE WITH NIGHT SETBACK. MINIMUM DEADBAND FOR THERMOSTATS 5 DEGREE F. PER SECTION C403.2.4.1, C403.2.4.1.2, C403.2.4.1.3 AND C403.2.4.2.

THERMOSTATS TO PROVIDE OPTIMUM START CONTROLS PER SECTION C403.2.4.2.3.

OSA, EXHAUST, RELIEF AND RETURN AIR DAMPERS TO MEET REQUIREMENTS OF SECTIONS C402.5.5 AND C403.2.4.3.

DUCT SYSTEMS –
ALL DUCTWORK TO BE CONSTRUCTED, SEALED AND INSULATED PER SECTION C403.2.8

ECONOMIZERS –
ALL ECONOMIZERS SHALL PROVIDE 100% OF THE DESIGN SUPPLY AIR AS OUTSIDE AIR PER SECTION C403.3.3.1

PROVIDE ECONOMIZERS WITH FIXED DRY BULB (75°F) HIGH–LIMIT SHUTOFF PER SECTION C403.3.3.3

SYSTEMS WITH ECONOMIZERS SHALL BE CAPABLE OF RELIEVING EXCESS OUTDOOR AIR DURING ECONOMIZER OPERATION PER SECTION C403.3.3.4.

BUILDING CONTROLS:
EXISTING DELTA SYSTEM HARDWARE LOCATED IN THE BOILER ROOM TO BE UPGRADED TO CONTROL ALL EXISTING HVAC SYSTEMS AND NEW SYSTEMS ADDED IN THIS PROJECT.
CONTACT ERIC SHIMMIN AT DELTA CONNECTS (425)–877–6762

1

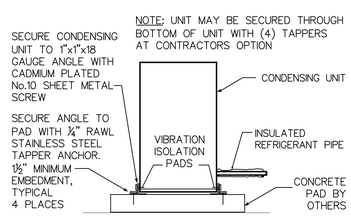
Paraclete Engineers
7510 N.E. VANCOUVER MALL DR SUITE 100
VANCOUVER, WA. 98662 (360) 254–9234

MARK	DATE	DESCRIPTION
1	3/1/17	ADDM1

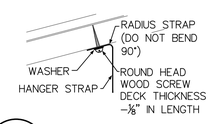
COLLINS ARCHITECTURAL GROUP, P.S.
950 12th AVE., SUITE 200
LONGVIEW, WA 98632
PHONE: 360-423-9000
FAX: 360-423-9001
E-MAIL: CRAIGG@COLLINSARCHGROUP.COM

SCOTT W CRUZ
STATE OF WASHINGTON
039786
REGISTERED PROFESSIONAL ENGINEER
2/16/17

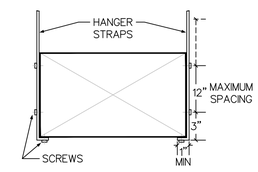
LONGVIEW READINESS CENTER
E.I.F.S AND HVAC
819 VANDERCOOK WAY
LONGVIEW, WA 98632



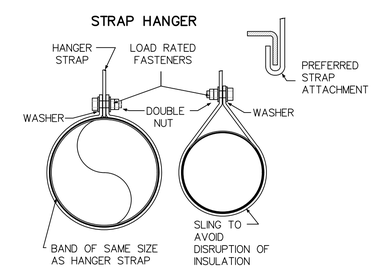
5 / M1 CONDENSING UNIT
NO SCALE



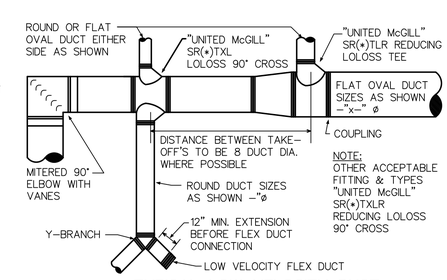
4 / M1 UPPER ATTACHMENT
NO SCALE



3 / M1 SQUARE DUCT LOWER HANGER ATTACHMENT
NO SCALE



2 / M1 ROUND DUCT LOWER HANGER ATTACHMENT
NO SCALE



1 / M1 TYPICAL LOW VELOCITY DUCT CONSTRUCTION DETAILS
SCALE: NONE

PERMIT SET
02-16-2017

SCHEDULES AND DETAILS

2016-039

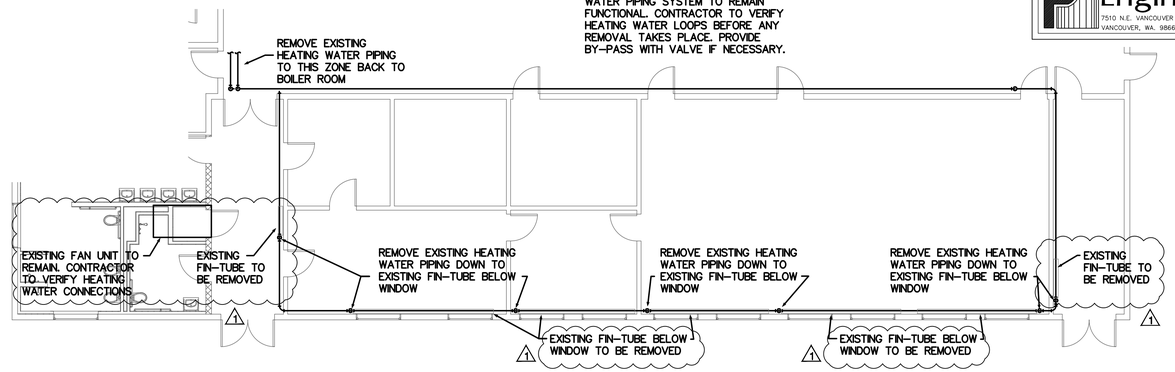
SHEET NO.
M1

M:\16191\16191M1.dwg, 2/28/2017 6:09:49 PM, DWG To PDF.pc3, Paraclete PS Inc

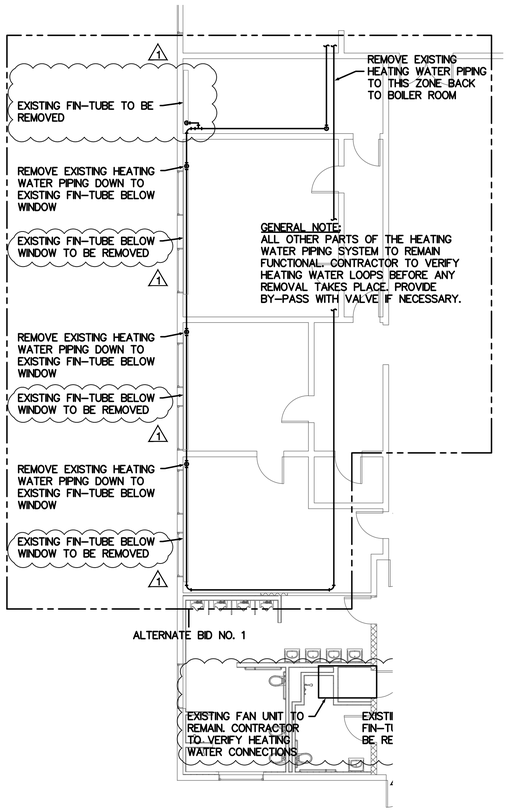
Paraclete Engineers
7510 N.E. VANCOUVER MALL DR SUITE 100
VANCOUVER, WA. 98662 (360) 254-9234

MARK	DATE	DESCRIPTION
1	3/1/17	ADDM1

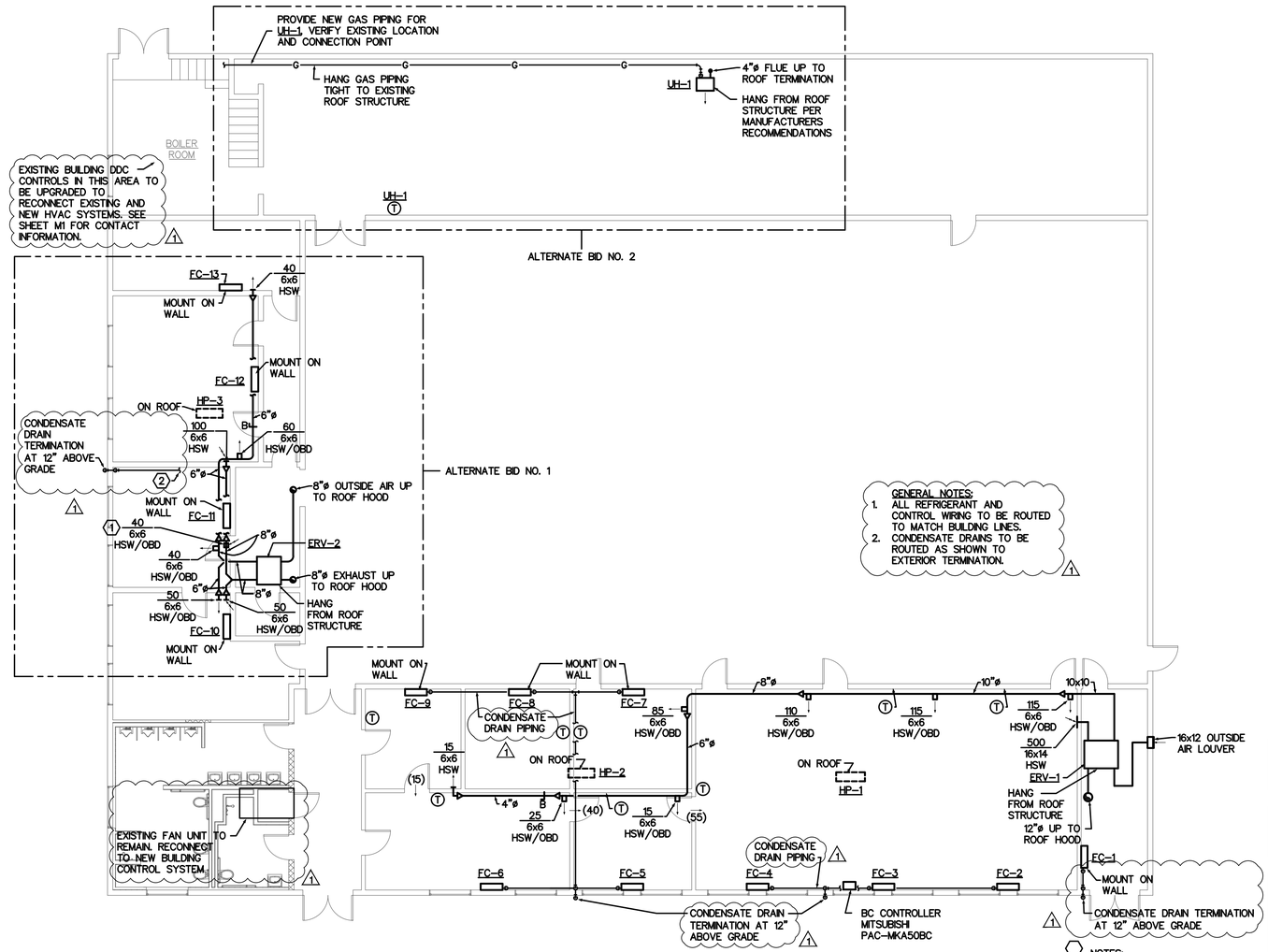
COLLINS ARCHITECTURAL GROUP, P.S.
950 12th AVE., SUITE 200
LONGVIEW, WA 98632
PHONE: 360-425-0000
FAX: 360-425-0001
E-MAIL: CRAIGC@COLLINSARCHGROUP.COM



2 M2 MECHANICAL PIPING DEMOLITION
1/8" = 1'-0"



3 M2 MECHANICAL PIPING DEMOLITION
1/8" = 1'-0"



1 M2 HVAC FLOOR PLAN
1/8" = 1'-0"

SCOTT W CRUZ
STATE OF WASHINGTON
029476
REGISTERED PROFESSIONAL ENGINEER
2/16/17

LONGVIEW READINESS CENTER
E.I.F.S AND HVAC
819 VANDERCOOK WAY
LONGVIEW, WA 98632

PERMIT SET
02-16-2017

HVAC FLOOR PLAN

2016-039

SHEET NO.
M2

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