HVAC LEGE	ND	ABBREVIATIONS		CALGREEN NOTES	HVAC GENERAL NOTES
TYPE CFM SIZE OT DWG EQ # TAG CFM SIZE ARROWS NDICATE BLOW PAT CFM(+) SD SD	DUCT, ROUND OR RECTANGULAR (AS NOTED PER PLANS) DUCT, ROUND OR RECTANGULAR (AS NOTED PER PLANS) VOLUME DAMPER DUCT, INTERNALLY INSULATED (ROUND OR RECTANGULAR) DUCT, INTERNALLY INSULATED (ROUND OR RECTANGULAR) FLEXIBLE DUCT/EQUIPMENT CONNECTION FLEXIBLE DUCT/EQUIPMENT CONNECTION FLEXIBLE DUCTWORK TURNING VANES IN RECTANGULAR DUCTWORK AIR OUTLET/INLET CALL-OUT (SEE AIR OUTLET SCHEDULE FOR TYPE) DUCTWORK CROSS SECTION SUPPLY DIFFUSER OUTLET (CEILING) RETURN GRILLE INLET (CEILING) EXHAUST GRILLE INLET (CEILING) THERMOSTAT @ 48" AFF DETAIL REFERENCE DETAIL NUMBER EQUIPMENT TAG AC EQUIPMENT TAG EQUIPMENT TAG AIR OUTLET TAG CFM SIZE U.S. GREEN BUILDING COUNCIL LOGO (PRODUCT APPROVED FOR LEEDS CREDIT) RECYCLING LOGO (PRODUCT CONTAINS RECYCLED MATERIAL) FIRE/SMOKE DAMPER LOW LEAKAGE OPPOSED BLADE MOTORIZED DAMPER	NOT ALL ABBREWATIONS LISTED HEREIN APPEAR ON THE DRAW (N) NEW (E) EXISTING AD ACCESS DOOR AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED LOOR AFG ABOVE FINISHED LOOR AFG ABOVE FINISHED BLOOR AFG ABOVE FINISHED BLOOR AFG ABOVE FINISHED BLOOR AFG ABOVE FINISHED BLOOR AHJ AUTHORITY HAVING JURISDICTION AL ACOUSTICALLY LINED ALLM ALUMINUM AP ACCESS PANEL APSI ABSOLUTE PRESSURE ATR ALL THREAD ROD BDD BACKDRAFT DAMPER BF BELOW GRADE BF BELOW GRADE BF BELOW GRADE BHP BRAKE HORSEPOWER BLKG BLOCKING BO BY OTHERS BTU BRITISH THERMAL UNITS BTUH BRITISH THERMAL UNITS PER HOUR BV BALL VALVE CD CONDENSATE DRAIN PIPING CFF CAPPED FOR FUTURE CFM CUBIC FEET PER HOUR CHWS CHILLED WATER SUPPLY CK CHECK VALVE COTG CLEANOUT TO GRADE CTE CONNECT TO EXISTING CV CONSTANT VOLUME CW DOMESTIC COLD WATER CWV COMBINATION WASTE & VENT DB DRY BULB TEMPERATURE DH DUCT HEATER EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR ECM ELECTRONIC COMMUTATED MOTOR EDH ELECTRIC DUCT HEATER EFF EFFICIENCY ESP EXTERNAL STATIC PRESSURE EWT ENTERING WATER TEMPERATURE FOR GRESS PAHRENHEIT FBO FURNISHED BY OTHERS FC FLEXIBLE CONNECTION FO FLOOR DRAIN FD FIRE DAMPER FM FEET PER MINUTE FT EET FT EET FT EET FT EATH FULL LOAD AMPERES FS FLOOR SINK FSD COMBINATION FIRE/SMOKE DAMPER FPM FEET PER MINUTE FT FEET FT EFET FT EET FT EAULL CADA WATER RETURN HR HEATING HOT WATER RETURN HR HEATING HOT WATER RETURN HR HEAT RECOVERY HWS HEATING HOT WATER RETURN HR HEATING HOT WATER HILL LOAD HOT TOR TOR TOR TOR TO		1. HYAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HAVE SYSTEMS. 2. PROVIDE DOCUMENTATION TO SHOW COMPLIANCE WITH CONSTRUCTION DOCUMENTS, PLANS, INSTALLER CERTIFICATIONS, INSPECTION REPORTS, TO DEMONSTRATE SUBSTANTAL CONFORMANCE, WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS INCCESSARY TO VERIEV COMPLIANCE, THAT METHAL CONFORMANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST 3. ARBC COMPLIANCE: COMPLY WITH AABCS MANUAL MIN 1"AABC NATIONAL STRANDARDS, AS APPLICABLE TO MECHANICAL ARI DISTRIBUTION SYSTEMS AND ASSOCIATED EQUIPMENT AND APPRACATUS, EXCEPT AS OTHERWISE SPECIFIED DEVELOP A WITHER PLAN OF PROPEDURES TO BE MICLUDED FOR TEST INC AND BALANCIS SUBJECTIONS ON WHO PERFORMED ITS SYN OR BULLIURD FOR THE SYN AND BALANCIS SUBJECTIONS ON WHO PERFORMED ITS SYN AND BALANCIS SUBJECTIONS ON THE PERFORMENT OF PROJUCE A MINIBIOL OF A ARCHARD STRAIN OF THE PERFORMANCY OF THE PERMANENT HAVE EQUIPMENT FOR THIS PURPOSE. 5. COVER ALL DUCT OPENINGS WITH SHEET METAL OR PLASTIC DURING CONSTRUCTION TO REDUCE DUST AND DEBBIS IN DUCTOYORK. 6. ALL AIR FILTERS SHALL BE MINIBIUM MERY 13. A HIGHER MERY RATING MAY BE REQUIRED ON SCHEDULES ON SPECIFICATIONS. 7. NO HAVAG REFRIGERANT SYSTEMS USING HYDROCHLOROCARBONS SHALL BE USED ON THE PROJECT. 8. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATION AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEESWARRANTES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. EQUIPMENT ANCHORY SYSTEMS USING HYDROCHLOROCARBONS SHALL BE USED ON THE PROJECT. 9. PROVIDE THE BUILDING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED ON THE APPROVED OWNER THAN SHALL BE CONTINUED ON THE	1. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO BE USED AS A GUIDE FOR THE INSTALLATION OF A COMPLETE MECHANICAL SYSTEM. COMTRACTOR SHALL AWEND ALL INFORMATION AS REQUIRED AS SITE CONDITIONS WARRANT. 2. WHERE MIGICATED BY SUBMIT TO MOOR, PROVIDE DETAIL DE SUBMITIALS FOR REVIEW BY MECHANICAL ENGINEER OF RECORD. ALL DRAWINGS SHALL BE IN 14"-1"0" SCALE AND ELECTRONIC. ALL SUBMITIALS SHALL BE ELECTRONIC. 3. PROVIDE ALL EQUIPMENT AND LABON NECESSARY FOR THE COMPLETE AND WORKABLE INSTALLATION OF ALL SPECIFIED AND OWNER SUPPLIED ECOUPMENT AND TEXTURES. 4. ALL WORK SHALL BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. 5. ALL DAMPERS INSTALLED OVER AREAS WITH HARD CELLINGS SHALL BE PROVIDED WITH ETHER REMOTE OPERATIORS OR ACCESS PANELS. 6. COORDINATE LOCATION OF ALL ACCESS PANELS WITH ARCHITECTURAL PLANS DO NOT CULT HAY STRUCTURAL MEMBERS OR STUDS WITHOUT PROPER COORDINATION WITH GENERAL CONTRACTOR AND STRUCTURAL DEVIANGES. 8. ALL DUCTWORK SHALL BE FUN PERPENDICULAR TO STRUCTURAL DRAWINGS. 8. ALL DUCTWORK SHALL BE FUN PERPENDICULAR TO STRUCTURAL DEVIANGES. 9. DUCTWORK SHALL WOOLD ARCHITECTURAL OPENINGS AND SHALL BE RUN CONCEALED UNLESS OTHERWISE NOTED. 10. DUCTWORK SHALL MANTAIN A CLEARANCE OF 1" MINIMUM FROM ALL COMBUSTIBLE SURFACES. 11. ALL DUCT JUCKS SHALL WAND REPRESENT CLEAR INSIDE DIMENSIONS LINLESS OTHERWISE NOTED. 12. CONTRACTOR SHALL VISIT SITE. AND FIELD VERIFY ALL EXISTINS CONDITIONS PRIOR TO BID. ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL CONTRACTOR SHALL WISH SITE. BUSINESS OTHERWISE NOTED. 12. CONTRACTOR SHALL VISIT SITE. AND FIELD VERIFY ALL EXISTINS CONDITIONS PRIOR TO BID. ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL CONTRACTORS SHALL BE SUBMITTED IN WRITING TO THE OWNERS REPRESENTATIVE PRIOR TO BID. 13. ROOF MOUNTED DUCTWORK SHALL BE SUPED TO SHED WATER. 14. ALL COUPMENT INSTALLED WITH SEISMIC VIBRATION ISOLATORS SHALL HAVE A MINIMUM 2" STATE DEFECTION IS BUSINESS OF THE MINIMUM 2" STATE DEFECTION. 15. REFRIGERANT PIPING SHALL BE SUZED A
		PRE-BALANCE F	REQUIREMENTS	THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. HVAC GENERAL NOTES	SUBMITTED TO THE ARCHITECT AND ENGINEER FRO REVIEW. ALL NOTED ACCEPTANCE TESTING MUST BE PERFORMED PRIOR TO BENEFICIAL OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACCEPTANCE TESTING AND SUBMIT COMPLETED ACCEPTANCE TEST FORMS TO THE AUTHORITY HAVING JURISDICTION.
		A. AIR FLOW AT ALL GRILLES IN ARE TO CONSTRUCTION AND DOCUM B. FOLLOWING ANY PROPOSED DEN HANDLERS AND EXHAUST FANS SEFLOW RATES IN OCCUPIED AREA LEVELS. LEVELS SHALL BE MAIN C. AIR FLOW RATES SHALL BE CON'MAINTAINED AT PRE-MEASURED WORK SHOWN. D. AFTER COMPLETION OF CONSTRUCTION	A OF WORK TO BE MEASURED PRIOR NTED, REFER ALSO TO TABLE ON M103. OLITION OF DUCTWORK, EXISTING AIR HALL BE ADJUSTED TO ENSURE AIR REMAIN AT PRE-CONSTRUCTION AINED THROUGHOUT CONSTRUCTION. INUOUSLY MONITORED AND VALUES THROUGH THE COURSE OF JCTION, AIR FLOWS OF EXISTING AIR HALL BE ADJUSTED TO RESTORE ALL	PERFORM FULL SERVICE DIAGNOSTIC CHECK, INCLUDING BUT NOT LIMITED TO: 1. TIGHTEN ELECTRICAL CONNECTIONS TO ORIGINAL EQUIPMENT MINIMUM REQUIREMENTS. 2. CHECK AIRFLOW, REFRIGERANT LEVEL, CURRENT (AMP.) DRAW. 3. CLEAN EVAPORATOR AND CONDENSER COILS. 4. INSPECT INDOOR FAN COIL DRAIN PAN AND DRAIN LINES. 5. CLEAN FAN BLADES AND CHECK FOR DUCT LEAKS. 6. CHECK AND VERIFY ECONOMIZER OPERATION. 7. PROGRAM THERMOSTATS TO OWNER SETPOINT AND TIME REQUIREMENTS. 8. LUBRICATE ALL MOVING PARTS PER MANUFACTURER'S RECOMMENDATIONS. 9. REPLACE BELTS AND FILTERS. 10. CLEAN COOLING COILS (ROOFTOP UNIT ONLY). 11. COMB EVAPORATIVE SECTIONS (ROOFTOP UNIT ONLY). 12. INSPECT HEAT EXCHANGER AND BURNER COMBUSTION (HEATING SPECIFIC). 13. CHECK AND ENSURE REFRIGERANT LEVEL AND CHARGE ARE WITHIN THE MANUFACTURER'S OPERATIONAL GUIDELINES. 14. DYNAMICALLY BALANCE BLOWER MOTOR. REPORT ANY DEFICIENCIES TO OWNER. SUBMIT TO MEOR.	25. DRAWINGS, SPECIFICATIONS, NOTES AND CALCULATIONS ARE FOR PERMIT SUBMITTAL ONLY TO THE AUTHORITY HAVING JURISDICTION. PLANS ARE NOT INTENDED FOR CONSTRUCTION, BIDDING AND/OR ESTIMATING UNTIL STAMPED AND SIGNED BY A LICENSED MECHANICAL ENGINEER AND THIS NOTE IS REMOVED. 26. PROVIDE ALL CONTROL WIRING AND DEVICES AS REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM. ALL WIRING AND DEVICES SHALL BE IN STRICT ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL SUBCONTRACTOR. DOCUMENT LIST CONTRACTOR SHALL REVIEW ENTIRE CONSTRUCTION SET, INCLUDING, BUT NOT LIMITED TO ALL SPECIFICATIONS, DRAWINGS, PROJECT MANUAL, CALCULATIONS AND CUT-SHEETS. ADDITIONAL LIST OF DOCUMENTS AND DRAWINGS CONTAINED HEREIN, INCLUDE; MO.01 HVAC NOTES, LEGENDS & ABBREVIATIONS MO.02 HVAC SCHEDULES M1.01 HVAC DEMOLITION PLAN M1.02 HVAC MODERNIZATION PLAN M1.03 HVAC ENLARGED PLANS M3.01 DETAILS BOOK SPECIFICATIONS, SECTIONS: 22 00 00 GENERAL REQUIREMENTS, PLUMBING 22 11 19 PLUMBING SPECIALTIES 22 11 23 NATURAL GAS PIPING 22 13 13 CONDENSATE DRAINAGE 23 00 00 GENERAL REQUIREMENTS, HVAC 23 05 53 IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT 23 05 93 TESTING, ADJUSTING AND BALANCING FOR HVAC 23 07 00 THERMAL INSULATION FOR MECHANICAL SYSTEMS 23 31 13 METAL DUCTS 23 80 00 DECENTRALIZED HVAC EQUIPMENT

phone: 707.577.0363 fax: 707.577.0364 email: info@15000inc.com state farm dr. #130 ert park, ca 94928



WATERFORD UNIFIED SCHOOL DISTRICT 219 N. REINWAY AVE, #2 WATERFORD, CA 95386

WATERFORD JUNIOR HS HVAC **EQUIPMENT** MODERNIZATION

12916 BENTLY STREET WATERFORD, CA 95386

PLAN SET INTENDED FOR PERMIT INTAKE AND REVIEW ONLY. BIDDING, ESTIMATING AND/OR CONSTRUCTION OF THIS PROJECT IS NOT AUTHORIZED BY THE MEOR UNTIL THIS NOTE IS REMOVED FROM THE DRAWINGS.

DATE

HVAC NOTES, LEGEND, AND ABBREVIATIONS

SUE DATE 08/27/2020 SUE TYPE INTAKE REVIEW IECKED BY MJT/JMT AS NOTED

1533.00 OT FOR CONSTRUCTION

ROOFTOP PACKAGED UNIT SCHEDULE (EXISTING)					ROOFTOP PACKAGED UNIT SCHEDULE (NEW)																								
TYPE MANUFACTURER MODEL#	NOMINAL N	OMINAL COOLING MBH	GAS INPUT MBH		CAL DATA MOCP		T DIS	CHARGE IGURATION	REMOVE PRESERVE	REMARKS	TYPE #	MANUFACTURER MODEL#	HI/LO CFM	ESP (INCHES W.C.)	SUPPLY FAN (BHP)	COOLIN	NG (MBH)	EER/SEER	HEATING INPUT HI/LO	,	AFUE	ELECT V/Ø/H	RICAL DATA		WEIGHT	DISCHARGE CONFIGURATION	ELECTRONIC AIR CLEANER	ROOF CURB ADAPTER	REMARKS
TRANE 1 4YCC3048A4075AB	1600	48.0	75.0	460/3/6	0 15	517	VERT	ICAL	REMOVE	1, 2	RTU 1	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 1	1, 2, 3, 4, 6, 10, 13
RTU TRANE 2 4YCC3048A4075AB	1600	48.0	75.0	460/3/6) 15	517	VERT	ICAL	REMOVE	1, 2	RTU 2	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 1	1, 2, 3, 4, 6, 10, 13
RTU TRANE 4YCC3048A4075AB	1600	48.0	75.0	460/3/6) 15	517	HORIZ	ZONTAL	REMOVE	1, 2	RTU 3	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	HORIZONTAL	EAC 1	RCA 5	1, 2, 3, 4, 6, 10, 13
DAY & NIGHT 588ANW060100AAAG	2000	60.0	100.0	208-230/1	/60 60	489	HORIZ	ZONTAL	REMOVE	1, 2	RTU 4	CARRIER 48VLNE600903-TP	2000	0.50	1.03	53.92	47.92	- /14	90	74	81	208-1-60	- 38.3	60	455	HORIZONTAL	EAC 1	RCA 5	1, 2, 3, 4, 7, 10, 12, 13
RTU BRYANT 582AEW060090NAAG	2000	60.0	90.0	460/3/6	0 20	450	HORIZ	ZONTAL	REMOVE	1, 2	RTU 5	CARRIER 48VLNC600906	2000	0.50	1.00	53.65	47.32	- /14	90	74	81	460/3/60	- 13.4	20	455	HORIZONTAL	EAC 1	RCA 5	1, 2, 3, 4, 7, 10, 12, 13
RTU TRANE 4YCC3048A4075AB	1600	48.0	75.0	460/3/6) 15	517	HORIZ	ZONTAL	REMOVE	1, 2	RTU 6	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	HORIZONTAL	EAC 1	RCA 5	1, 2, 3, 4, 6, 10, 13
RTU BRYANT 577CEWC60090NA	2000	60.0	90.0	460/3/6	0 20	523	VERT	ICAL	PRESERVE (EXISTING TO REMAIN)	3	RTU 7					•		E	KISTING TO REM	AIN=			•	•		VERTICAL	EAC 1		4, 9, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	0 20	509	VERT	ICAL	REMOVE	1, 2	RTU 8	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU RHEEM RRGG-05N31JKR	1000	30.0	50.0	208-230/1	/60 30	388	VERT	ICAL	REMOVE	1, 2	RTU 9	CARRIER 48VLNE300403	1000	0.50	0.24	28.83	24.13	- /14	40	33	81	208-1-60	- 21.4	30	336	VERTICAL	EAC 1	RCA 3	1, 2, 3, 4, 8, 10, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	0 20	509	VERT	ICAL	REMOVE	1, 2	RTU 10	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU RHEEM RRGG-05N18JKR	600	18.0	50.0	208-230/1	/60 25	329	VERT	ICAL	REMOVE	1, 2	RTU 11	CARRIER 48VLNE240403-TP	800	0.50	0.14	24.30	18.34	- /14	40	33	81	208-1-60	- 15.2	20	304	VERTICAL	EAC 1	RCA 4	1, 2, 3, 4, 8, 10, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	20	509	VERT	ICAL	REMOVE	1, 2	RTU 12	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	20	509	VERT	ICAL	REMOVE	1, 2	RTU 13	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	20	509	VERT	ICAL	REMOVE	1, 2	RTU 14	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU RHEEM RRGG-07E49DLR	1600	48.0	75.0	460/3/6	0 20	509	VERT	ICAL	REMOVE	1, 2	RTU 15	CARRIER 48VLNC480906	1600	0.50	0.27	42.85	38.87	- /14	90	74	81	460/3/60	- 12.3	15	438	VERTICAL	EAC 1	RCA 2	1, 2, 3, 4, 6, 10, 13
RTU CARRIER 48TCDA07A2A6A0A0A0	2400	70.0	72.0	460/3/6	25	652	VERT	ICAL	REMOVE	1, 2	RTU 16	CARRIER 48FCDM07A3A6-0A0A0	2400	1.0	1.65	72.42	55.62	11 / -	67	54	81	460/3/60	- 15	20	612	VERTICAL	EAC 2	SEE REMARKS	1, 2, 3, 4, 5, 11, 12, 13

- 1. MECHANICAL UNIT WEIGHT LISTED IS THE BASE WEIGHT ONLY FROM MANUFACTURE'S LITERATURE AND NOT INCLUSIVE OF ROOF CURB, ECONOMIZER, WEATHER HOODS, OR OTHER
- EQUIPMENT ADD ON OPTIONS, AS A MEANS TO PROVIDE A BASIS OF COMPARISON BETWEEN REMOVED AND NEW UNIT'S WEIGHT.
- REMOVE UNIT FROM ROOF AND DISCARD. PRESERVE EXISTING FOR REUSE AND PERFORM HVAC SERVICE CHECK TO CONFIRM SATISFACTORY OPERATION.

REMARKS:

- DISCONNECT SWITCH IN NEMA-3R HOUSING
- LOW NOx UNIT
- MERV-13 FILTER VENSTAR MODEL T8850 THERMOSTAT (STANDALONE, T24 COMPLIANT, 7 DAY PROGRAMMABLE)
- 6. PROVIDE WITH OUTSIDE AIR MANUAL HOOD MICROMETL OAM-SDLGS-CD
- 7. PROVIDE WITH ECONOMIZER AND BAROMETRIC RELIEF HOOD MICROMETL ECC-SPPLGCA-D**B* - INCLUSIVE OF DRY BULB SENSOR, BELIMO ACTUATOR AND JADE
- LOGIC CONTROLLER PACKAGE NO ADAPTER CURB REQUIRED - UNIT IS DIRECT REPLACEMENT OF EXISTING MODEL (CONTRACTOR TO VIF)

 8. PROVIDE WITH OUTSIDE AIR MANUAL HOOD - MICROMETL OAM-SDSML-CD
- 9. UNIT TO REMAIN RETROFIT WITH EAC-1 PURIFIER MODULE AND INSTALL PER MNFR'S
- RECOMMENDATIONS. 10. ADAPTER CURB, SEE SCHEDULE.
- 11. PROVIDE WITH ECONOMIZER AND BAROMETRIC RELIEF HOOD, INCLUSIVE OF DRY BULB SENSOR, BELIMO ACTUATOR AND JADE LOGIC CONTROLLER PACKAGE.
- 12. DUCT SMOKE DETECTOR PER 2019 CMC 608.1. 13. UVC LAMP, INTERIOR TO RTU CABINET (STERILE-AIRE OR EQUAL).

ELECTRONIC AIR PURIFIER SCHEDULE

		•									
TYPE	MANUFACTURER	MAX	APD	NUMBER OF	LOCATION	OUTDUT ION	LIEECDAN	ELECTRIC	CAL DATA	WEIGHT	DEMARKS
#	MODEL#	CFM	(INCHES W.C.)	MODULES	(APPROX.)	OUTPUT ION	LIFESPAN	V/Ø/H	WATTS	WEIGHT	REMARKS
EAC 1	ultraPURE ION-0AD00	2000	0.0	(1) SEE ALSO REMARK #2	BLOWER INLET	NEGATIVE	15,000 HRS	115/1/60	6.9	0.50 lbs (1) MODULE	ALL
EAC 2	ultraPURE ION-0AD00	4000	0.0	(2) SEE ALSO REMARK #2	BLOWER INLET	NEGATIVE	15,000 HRS	115/1/60	13.8 (TOTAL) 6.9 (EA)	1.00 LBS (2) MODEULES	ALL

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. WHERE AIRFLOW EXCEEDS 2000 CFM, TWO EAC MODULES SHALL BE INSTALLED (SEE ALSO REMARK #1)
- UL2998 CERTIFIED FOR ZERO OZONE EMISSION

ROOF CURB ADAPTER SCHEDULE

TYPE #	MANUFACTURER MODEL#	MATERIAL	INSULATION	GASKET	REMARKS
RCA 1	CDI CURBS 1-3041-4023	18 GA GSM	1" / 1-1/2LB (R-VALUE 3.85)	YES (PERIMETER)	1, 2
RCA 2	CDI CURBS 1-6515-4023LARGE	18 GA GSM	1" / 1-1/2LB (R-VALUE 3.85)	YES (PERIMETER)	1, 2
RCA 3	CDI CURBS 1-6505-4021LARGE	18 GA GSM	1" / 1-1/2LB (R-VALUE 3.85)	YES (PERIMETER)	1, 2
RCA 4	CDI CURBS 1-6500-4021	18 GA GSM	1" / 1-1/2LB (R-VALUE 3.85)	YES (PERIMETER)	1, 2
RCA 5	CDI CURBS CUSTOM	18 GA GSM	1" / 1-1/2LB (R-VALUE 3.85)	YES (PERIMETER)	1, 2, 3

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS CURB OUTSIDE DIMENSIONS AND SA/RA CONFIGURATION PRIOR TO ORDERING AND/OR INSTALLATION OF EQUIPMENT.
- ADAPTER SHALL HAVE 3" OVERLAP FOR CONNECTION TO EXISTING CURB CONTRACTOR SHALL MEASURE EXISTING PLATFORM





WATERFORD UNIFIED SCHOOL DISTRICT 219 N. REINWAY AVE, #2 WATERFORD, CA 95386

WATERFORD JUNIOR HS HVAC **EQUIPMENT MODERNIZATION**

> 12916 BENTLY STREET WATERFORD, CA 95386

PLAN SET INTENDED FOR PERMIT INTAKE AND REVIEW ONLY. BIDDING, ESTIMATING AND/OR CONSTRUCTION OF THIS PROJECT IS NOT AUTHORIZED
BY THE MEOR UNTIL THIS NOTE IS
REMOVED FROM THE DRAWINGS.

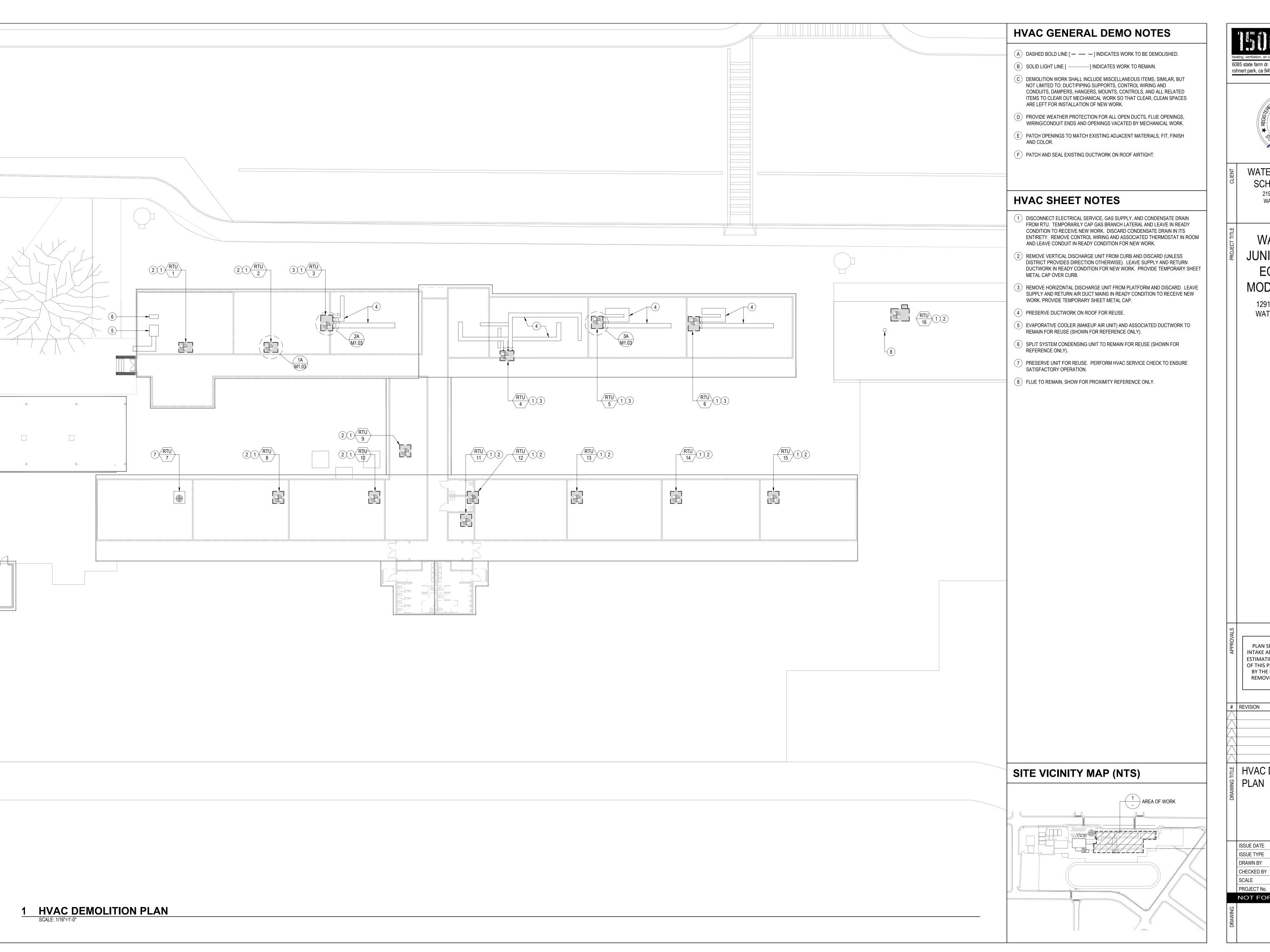
#	REVISION	DATE
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| | HVAC SCHEDULES

08/27/2020 ISSUE DATE INTAKE REVIEW ISSUE TYPE DRAWN BY CHECKED BY MJT/JMT AS NOTED

NOT FOR CONSTRUCTION

PROJECT No.



heating, ventilation, air conditioning + plumbing design and engineering
6085 state farm dr. #130 phone: 707.577.0363
rohnert park, ca 94928 fax: 707.577.0364
email: info@15000inc.com



WATERFORD UNIFIED SCHOOL DISTRICT 219 N. REINWAY AVE, #2 WATERFORD, CA 95386

WATERFORD
JUNIOR HS HVAC
EQUIPMENT
MODERNIZATION

12916 BENTLY STREET WATERFORD, CA 95386

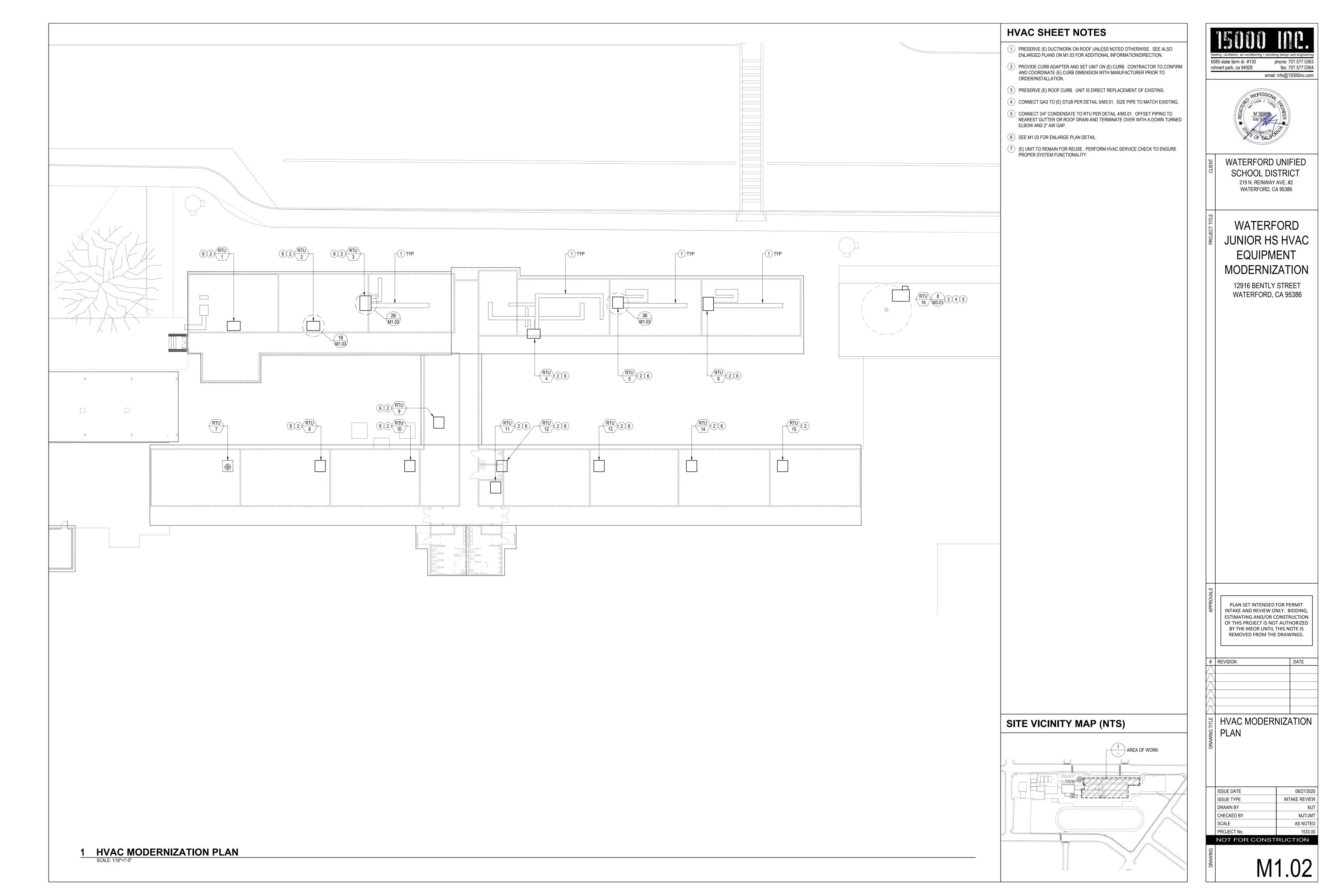
PLAN SET INTENDED FOR PERMIT INTAKE AND REVIEW ONLY. BIDDING, ESTIMATING AND/OR CONSTRUCTION OF THIS PROJECT IS NOT AUTHORIZED BY THE MEOR UNTIL THIS NOTE IS REMOVED FROM THE DRAWINGS.

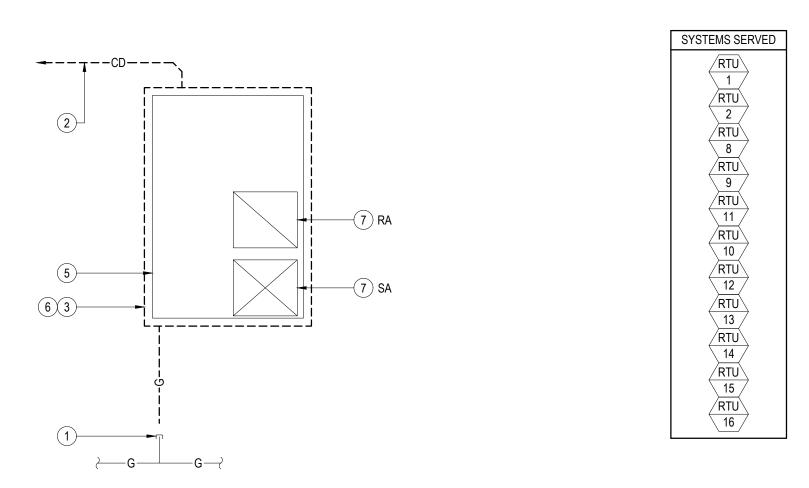
REVISION DATE

| HVAC DEMOLITION | PLAN

ISSUE DATE 08/27/2020
ISSUE TYPE INTAKE REVIEW
DRAWN BY MJT
CHECKED BY MJT/JMT
SCALE AS NOTED

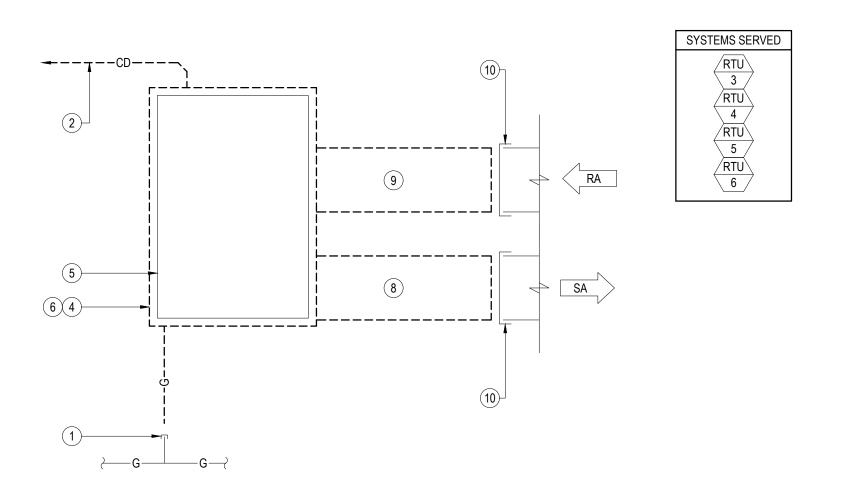
NOT FOR CONSTRUCTION





ENLARGED PLAN - 1A (DEMOLITION)

NOT TO SCALE



ENLARGED PLAN - 2A/3A (DEMOLITION)

NOT TO SCALE

ROOFTOP U	NIT PRE-BALANCE TABL	E (TABLE-1)	
SYSTEM	SUPPLY AIR(CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM
RTU-1			
RTU-2			
RTU-3			
RTU-4			
RTU-5			
RTU-6			
RTU-8			
RTU-9			
RTU-10			
RTU-11			
RTU-12			
RTU-13			
RTU-14			
RTU-15			
RTU-16			

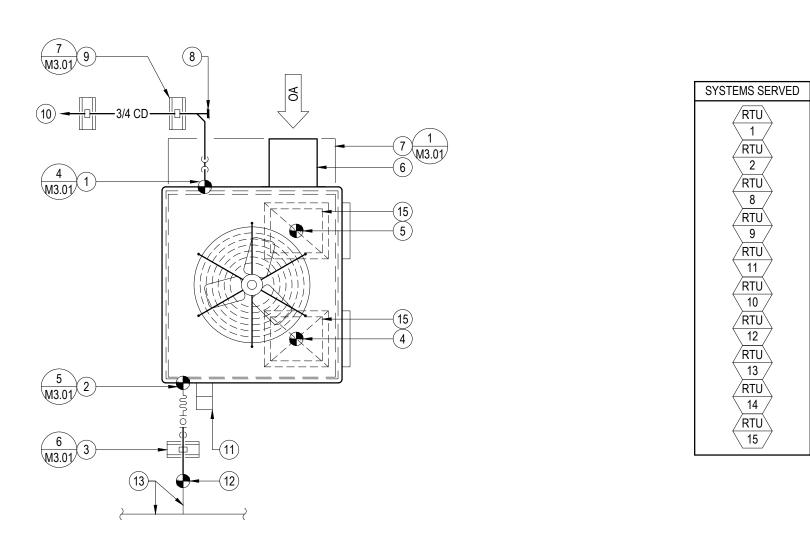
PRE-BALANCE DOCUMENTATION TABLE

HVAC DEMOLITION NOTES (1A,2A,3A)

- 1 TEMPORARILY CAP GAS PIPING LEAVE IN READY CONDITION FOR NEW WORK.
 REMOVE AND DEMOLISH DOWNSTREAM SECTION IN ITS ENTIRETY.
- (2) DISCONNECT AND REMOVE CONDENSATE PIPING IN ITS ENTIRETY.
- 3 REMOVE DOWN DISCHARGE ROOFTOP UNIT.
- (4) REMOVE HORIZONTAL DISCHARGE ROOFTOP UNIT.
- 5 TEMPORARILY CAP ROOF CURB AND LEAVE IN READY CONDITION FOR REUSE AND/OR CONNECTION TO ADAPTER CURB.
- 6 PRIOR TO UNIT REMOVAL, TEST AND BALANCE (TAB) CONTRACTOR SHALL PERFORM PRE-BALANCE OF SYSTEM TO DOCUMENT AND RECORD SUPPLY AIR AND RETURN AIR MAINS. AND OUTSIDE AIR FLOW IN TABLE-1. THIS SHEET.
- 7 PRESERVE DUCT DROP THROUGH ROOF FOR CONNECTION TO FUTURE FOLIPMENT
- 8 REMOVE SUPPLY AIR DUCT ON ROOF (APPROXIMATELY 48" DOWNSTREAM OF UNIT).
- 9 REMOVE RETURN AIR DUCT ON ROOF (APPROXIMATELY 48" DOWNSTREAM OF
- (10) TEMPORARILY CAP DUCTWORK AND LEAVE IN READY CONDITION FOR CONNECTION TO NEW WORK.

HVAC GENERAL DEMO NOTES

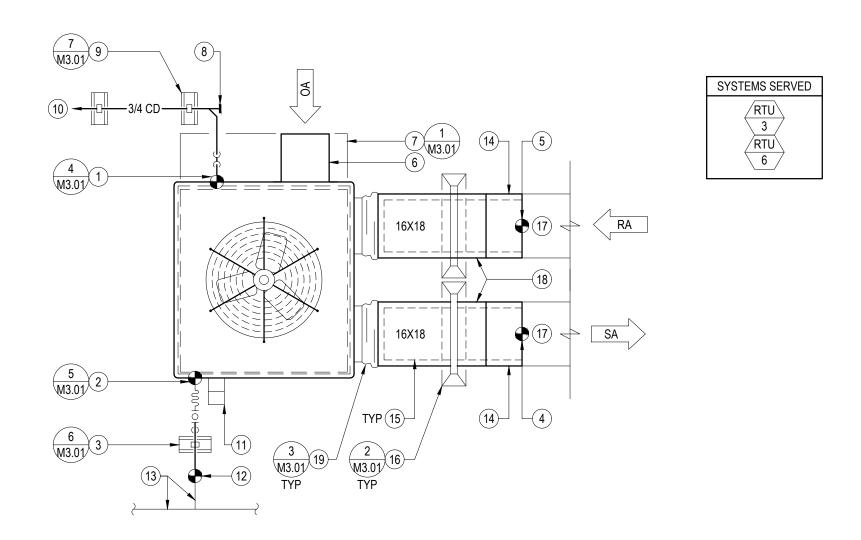
- B) SOLID LIGHT LINE [———] INDICATES WORK TO REMAIN.
- C DEMOLITION WORK SHALL INCLUDE MISCELLANEOUS ITEMS, SIMILAR, BUT NOT LIMITED TO: DUCT/PIPING SUPPORTS, CONTROL WIRING AND CONDUITS, DAMPERS, HANGERS, MOUNTS, CONTROLS, AND ALL RELATED ITEMS TO CLEAR OUT MECHANICAL WORK SO THAT CLEAR, CLEAN SPACES ARE LEFT FOR INSTALLATION OF NEW WORK.
- D PROVIDE WEATHER PROTECTION FOR ALL OPEN DUCTS, FLUE OPENINGS, WIRING/CONDUIT ENDS AND OPENINGS VACATED BY MECHANICAL WORK.
- E PATCH OPENINGS TO MATCH EXISTING ADJACENT MATERIALS, FIT, FINISH AND COLOR.



ENLARGED PLAN - 1B (REMODEL)

NOT TO SCALE

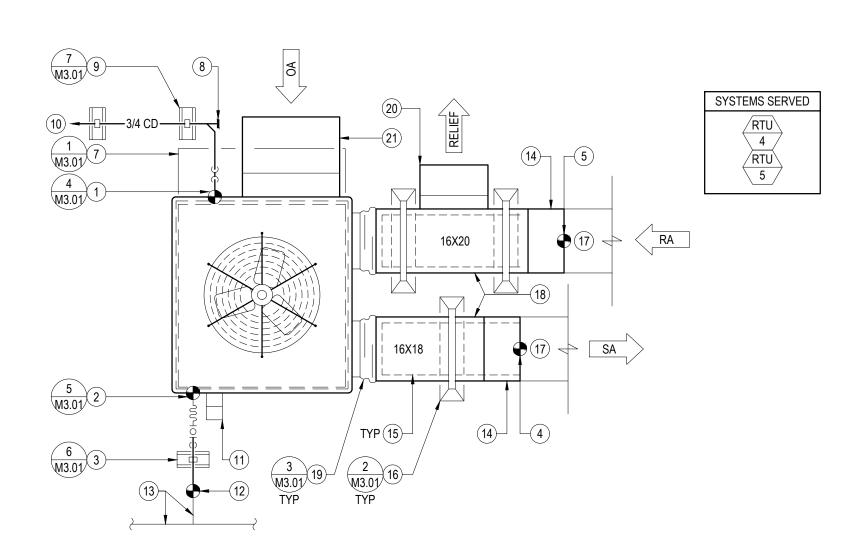
NOTE: EQUIPMENT ORIENTATION MAY VARY IN FIELD, CONFIRM PRIOR TO INSTALLATION



ENLARGED PLAN - 2B (REMODEL)

NOT TO SCALE

NOTE: EQUIPMENT ORIENTATION MAY VARY IN FIELD, CONFIRM PRIOR TO INSTALLATION



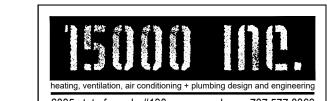
ENLARGED PLAN - 3B (REMODEL)

NOT TO SCALE

NOTE: EQUIPMENT ORIENTATION MAY VARY IN FIELD, CONFIRM PRIOR TO INSTALLATION

HVAC REMODEL NOTES (1B,2B,3B)

- 1 CONNECT CONDENSATE PIPING TO RTU AT POC. PROVIDE WITH ANCILLARY FITTINGS AND MAKE FINAL CONNECTION.
- 2 CONNECT GAS PIPING TO RTU AT POC. PROVIDE WITH ANCILLARY FITTINGS AND MAKE FINAL CONNECTION.
- (3) GAS SUPPORT ON ROOF.
- 4 CONNECT SUPPLY AIR TO EXISTING AT POC. PROVIDE WITH ANCILLARY FITTINGS AND MAKE FINAL CONNECTION.
- 5 CONNECT RETURN AIR TO EXISTING AT POC. PROVIDE WITH ANCILLARY FITTINGS AND MAKE FINAL CONNECTION.
- 6 OUTSIDE AIR WEATHERHOOD, REFER TO SCHEDULE FOR MANUFACTURER/MODEL SPECIFICATION.
- 7 CURB ADAPTER, REFER TO RTU SCHEDULE FOR MANUFACTURER/MODEL SPECIFICATION.
- 8 END PLUG TYPE CLEANOUT.
- 9 CONDENSATE PIPE SUPPORT ON ROOF. SLOPE PIPING DOWNWARD IN DIRECTION OF FLOW AT 1/8" PER FT.
- (10) OFFSET CONDENSATE DRAIN TO NEAR ROOF GUTTER AND TERMINATE OVER GUTTER WITH A DOWN TURNED ELBOW AND 2" AIR GAP.
- 11) FLUE DEFLECTOR.
- (12) CONNECT GAS PIPING TO EXISTING SIZE TO MATCH EXISTING BRANCH.
- (13) (E) GAS PIPING ON ROOF, VIF SIZE AND EXACT LOCATION.
- (14) TRANSITION DUCTWORK AS REQUIRED TO MEET (E) DUCTWORK.
- PROVIDE 1-1/2" DUCT LINER. DIMENSIONS ON DUCTWORK SHOWN REPRESENT CLEAR INSIDE DIMENSION AND DO NOT ACCOUNT FOR LINER THICKNESS.
- 16 DUCT SUPPORT ON ROOF.
- (E) DUCTWORK ON ROOF, VIF EXACT SIZE AND LOCATION.
- (18) SLOPE ROOF MOUNTED DUCTWORK TO SHED WATER.
- 19 FLEXIBLE DUCT CONNECTION TO UNIT.
- 20 BAROMETRIC RELIEF SEE SCHEDULE FOR ADDITIONAL INFORMATION.
- (21) ECONOMIZER SEE SCHEDULE FOR ADDITIONAL INFORMATION.



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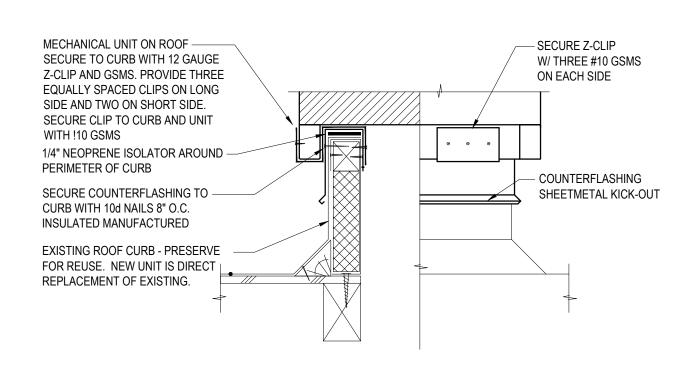
REVISION DATE

HVAC ENLARGED PLANS

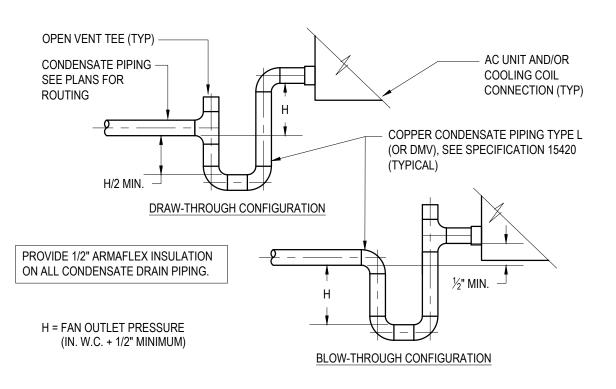
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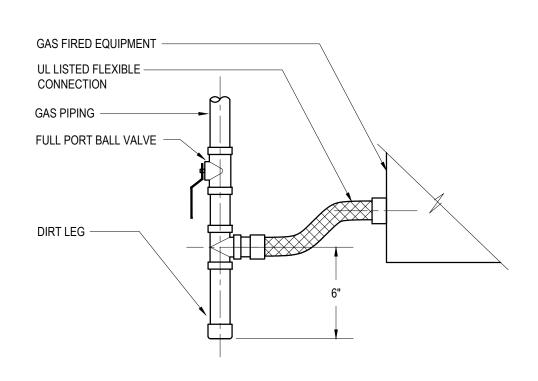
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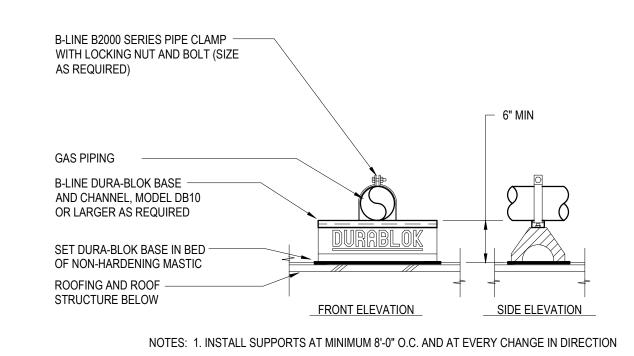
8 RTU MOUNTING TO (E) CURB



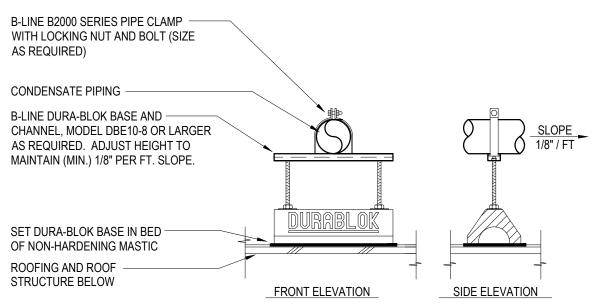
4 CONDENSATE DRAIN CONNECTION



5 FUEL GAS CONNECTION DETAIL



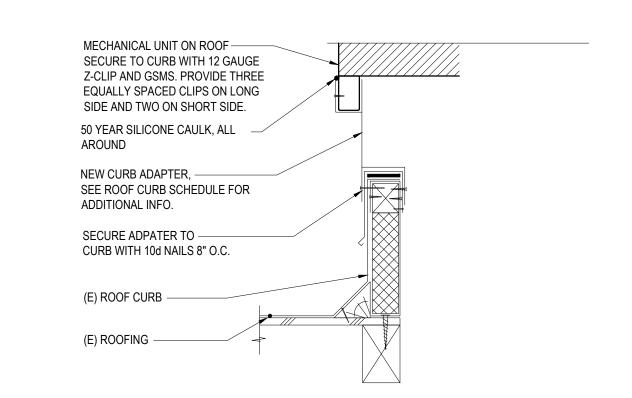
6 GAS PIPE SUPPORT ON ROOF SCALE: NONE THIS METHOD OF CONSTRUCTION UTILIZES MATERIAL APPROVED BY THE U.S. GREEN BUILDING COUNCIL FOR LEEDS CREDITS



NOTES: 1. INSTALL SUPPORTS AT MINIMUM 8'-0" O.C. AND AT EVERY CHANGE IN DIRECTION

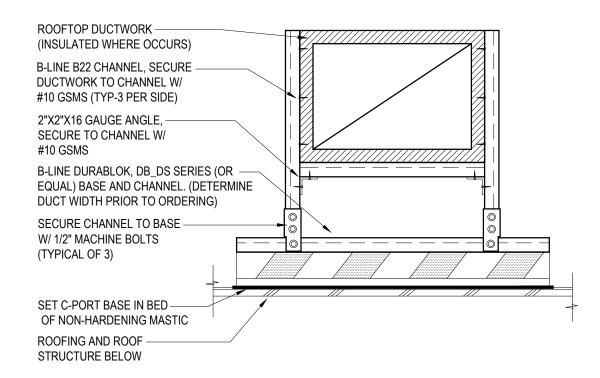
CONDENSATE PIPE SUPPORT ON ROOF





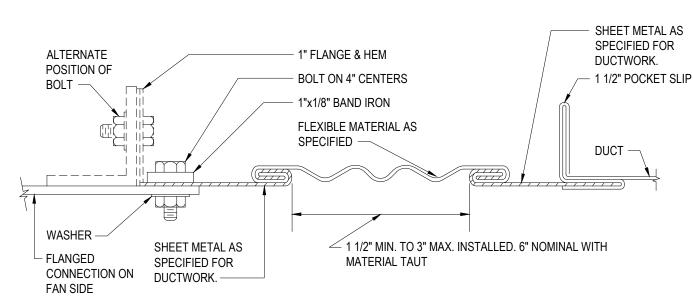
1 ROOF MTD. AC UNIT ON CURB ADAPTER

SCALE: NONE NOTE: REFER ALSO MANUFACTURER'S INSTALLATION GUIDELINES

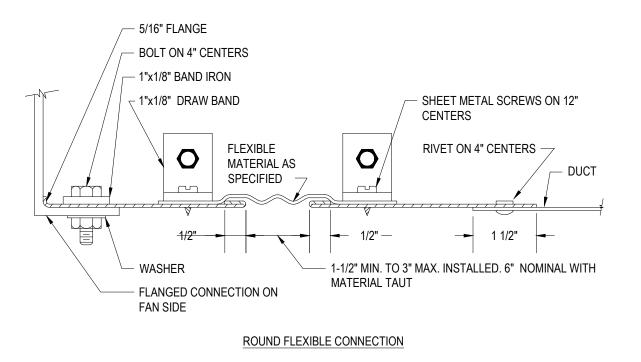


2 DUCT MOUNTING ON ROOF

THIS METHOD OF CONSTRUCTION UTILIZES MATERIAL APPROVED BY THE U.S. GREEN BUILDING COUNCIL FOR LEEDS CREDITS



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