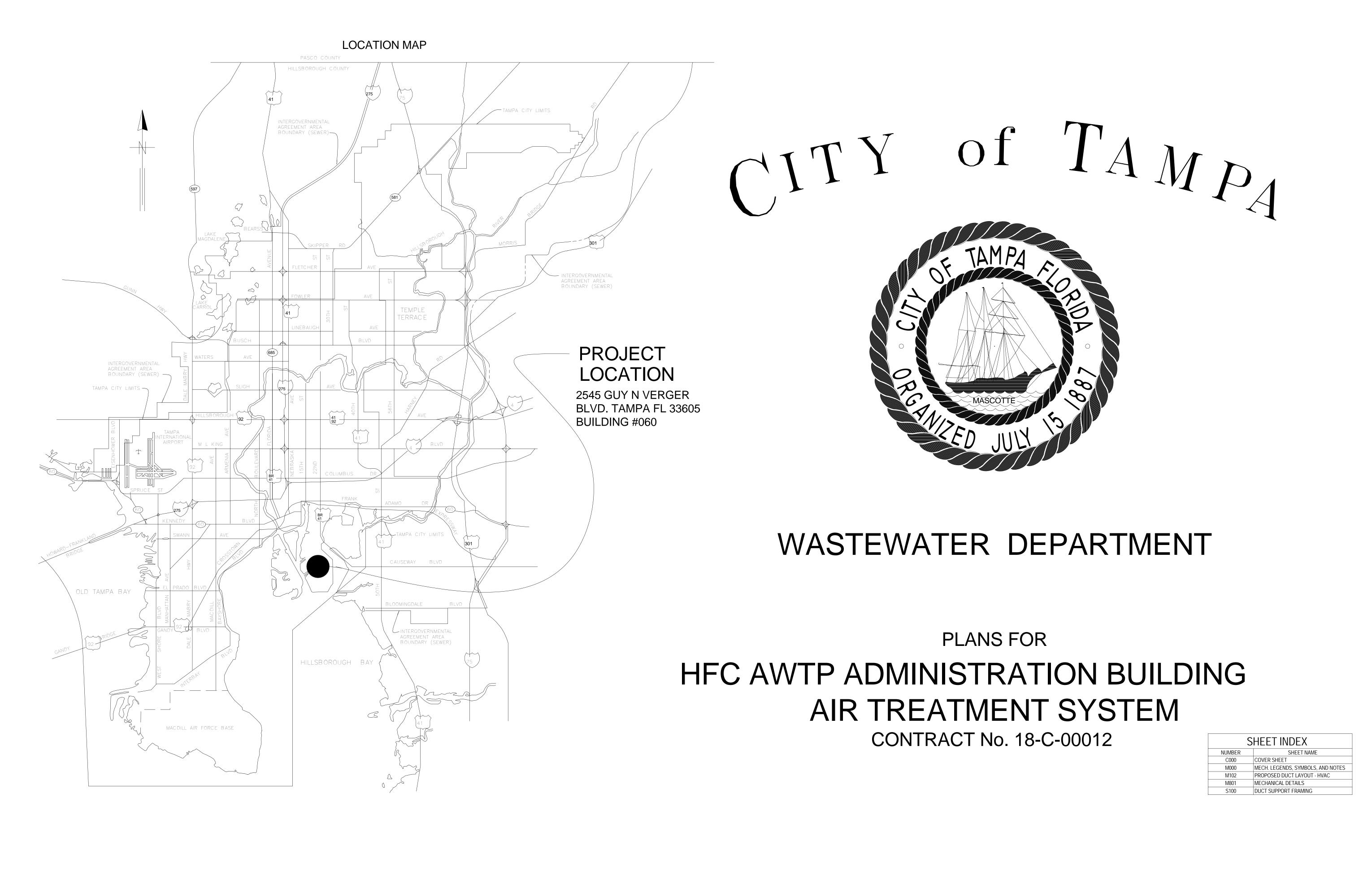
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456





MASTER CONSULTING	No.	DATE	REVISIONS
ENGINEERS, INC. STRUCTURAL CONSULTANTS 5523 WEST CYPRESS ST., STE.200	3		
TAMPA, FLORIDA 33607-1735 P 813.287.3600 F 813.287.3622 HIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF MASTER	2		
CONSULTING ENGINEERS, INC. AND MAY NOT BE REPRODUCED, COPIED, ALTERED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN AUTHORIZATION FROM MASTER CONSULTING ENGINEERS, INC. CA: 8426 PROJ NO. 2030-115	1		

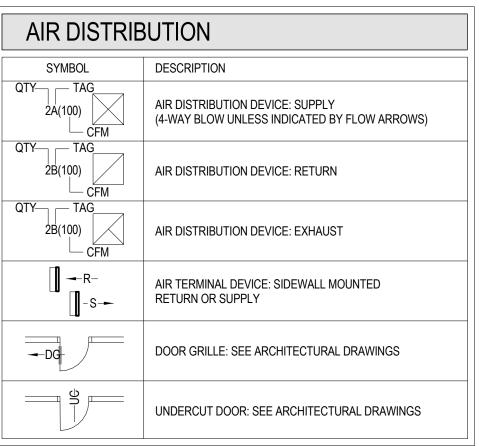
DES: AC WD DRN: CITY of $TA_{MP_{\mathcal{A}}}$ CKD: DAC DATE: 05/25/18 WASTEWATER DEPARTMENT

HFC AWTP ADMINISTRATION BUILDING
AIR TREATMENT SYSTEM

100% CONSTRUCTION DOCUMENTS

COVER SHEET





GENERAL T	TAGS
SYMBOL	DESCRIPTION
<u>AHU-1</u>	AIR HANDLING UNIT
<u>F-1</u>	FAN
<u>RTU-1</u>	ROOF TOP UNIT
<u>CU-1</u>	CONDENSING UNIT
<u>VAV</u>	VARIABLE AIR VOLUME TERMINAL UNIT
<u>FPU-1</u>	FAN POWERED VARIABLE VOLUME TERMINAL UNIT
EDH-1	ELECTRIC DUCT HEATER
<u>P-1</u>	PUMP
PCU-1	POLLUTION CONTROL UNIT
_1	REVISION REFERENCE
1 M-1	DETAIL REFERENCE: TOP: DETAIL # BOTTOM: DRAWING # DETAIL SHOWN ON
<u></u>	NEUTRAL RELATIVE PRESSURE
<u></u>	POSITIVE RELATIVE PRESSURE
<u> </u>	NEGATIVE RELATIVE PRESSURE
(#)	KEY NOTE CALLOUT

AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
СТ	COOLING TOWER
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FF	FINAL FILTERS
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED CONTROL DAMPER (MOD)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAL	OUTSIDE AIR LOUVER
PRV	PRESSURE REDUCING VALVE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TAB	TEST, ADJUST AND BALANCE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
V/PH	VOLTS/PHASE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE

HVAC ABBREVIATIONS

AFR

ABOVE FINISHED FLOOR

ABOVE FINISHED ROOF

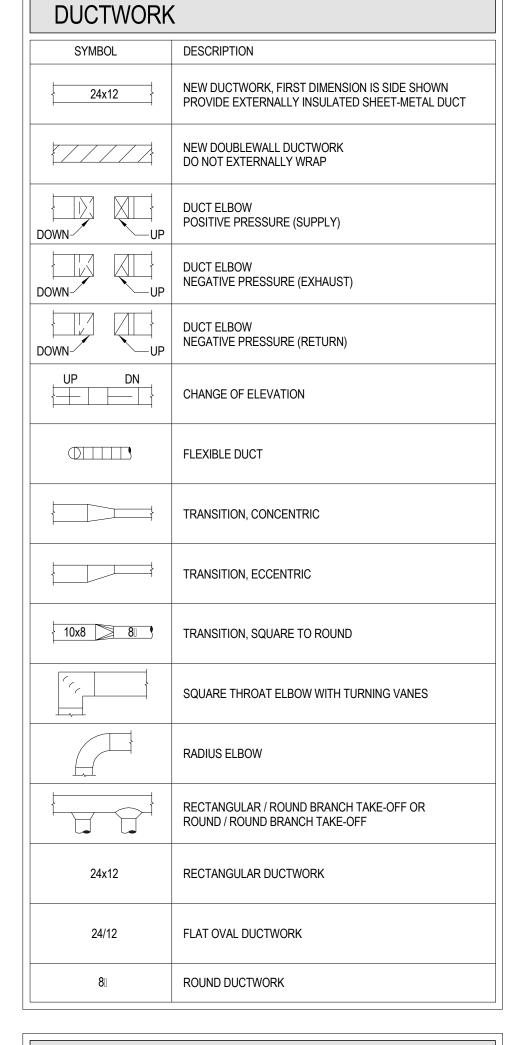
SYMBOL	DESCRIPTION
FD AD	FIRE DAMPER WITH ACCESS DOOR PANEL
► SD	SMOKE DAMPER WITH ACCESS DOOR PANEL
FSD AD	FIRE AND SMOKE DAMPER WITH ACCESS DOOR PANEL
	EXISTING FIRE DAMPER TO REMAIN WITH ACCESS DOOR PANEL, UNLESS OTHERWISE NOTED
	EXISTING FIRE AND SMOKE DAMPER TO REMAIN WITH ACCESS PANEL, UNLESS OTHERWISE NOTED
	DUCT SMOKE DETECTOR

EQUIPMENT	
SYMBOL	DESCRIPTION
(<u>N</u>) <u>F-1</u>	EXHAUST DUCT UP TO FAN ABOVE
[] <u>F-1</u>	EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW
F-1	IN-LINE CENTRIFUGAL FAN
EQUIP.—əŋ	P-TRAP

HVAC PIPIN	IG SYMBOL LEGEND
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CD	CONDENSATE
CR	CONDENSATE RETURN
———— PC ———	PUMPED CONDENSATE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
──	FLOW DIRECTION
<u> </u>	GATE VALVE
	BALL VALVE
	CALIBRATING BALANCING VALVE
——————————————————————————————————————	BUTTERFLY VALVE
	GAS COCK
	UNION
	STRAINER
	CONTROL VALVE
\$	SOLENOID VALVE
	PSI REG.
	CHECK VALVE
-	FLOW SWITCH
	FLEX CONNECTION
——————————————————————————————————————	O.S.&Y. GATE VALVE
	THREE-WAY CONTROL VALVE
	THERMOMETER
EQUIP.	P-TRAP
	TWO-WAY CHECK VALVE
MV TH	MANUAL VENT
	PRESSURE GAUGE
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
151	TEE, OUTLET DOWN
11	

CONTROLS	
SYMBOL	DESCRIPTION
1	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDISTAT / HUMIDITY SENSOR
M	MOTORIZED CONTROL DAMPER
TS	TEMPERATURE SENSOR
P	PRESSURE SENSOR
(CO)	CO2 SENSOR

TEE, OUTLET UP



DUCT ACCE	DUCT ACCESSORIES			
SYMBOL	DESCRIPTION			
SA-1	SOUND ATTENUATOR			
M	MOTOR OPERATED CONTROL DAMPER (MOD)			
FM	AIR FLOW MEASURING STATION			
	MANUAL BALANCING DAMPER			
	ACCESS DOORS, VERTICAL OR HORIZONTAL			
	FLEXIBLE CONNECTION			
AF	CFM SENSOR			
	BACKDRAFT DAMPER			

GENERAL NOTES

WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES, AND CONTRACT DRAWINGS AND SPECIFICATIONS. WORK SHALL INCLUDE ALL WORK NORMALLY SPECIFIED IN DIVISION 15.

PAY FOR ALL REQUIRED LICENSES, FEES, AND INSPECTIONS.

2. <u>CODES:</u>
INSTALL ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATIONS AND GOVERNING CODES, INCLUDING THE REGULATIONS OF THE UTILITY COMPANIES SERVING THE PROJECT.

WHERE A CONFLICT IN CODE REQUIREMENTS OCCURS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017), THE NATIONAL ELECTRICAL CODE (NEC) 2014 EDITION AND CHAPTER 5 OF THE CITY OF TAMPA CODE.

3. <u>STANDARDS:</u>
ALL EQUIPMENT AND DEVICES SHALL BEAR U.L. LABEL, THE LABEL OF AN INDUSTRY RECOGNIZED APPROVED TESTING AGENCY OR A.G.A. CERTIFICATION FOR SAID ITEM OF EQUIPMENT OR DEVICE.

ALL ELECTRICAL DEVICES MUST BE U.L. APPROVED.

4. DRAWIN

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE ACCEPTANCE OF THE ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.

5. DISCREPANCIES:

IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO ENGINEER FOR CLARIFICATION AND INSTRUCTIONS.

6. <u>AUXILIARIES AND ACCESSORIES:</u>
INCLUDE ALL AUXILIARIES AND ACCESSORIES FOR COMPLETE AND PROPERLY

OPERATING SYSTEMS.

7. INVESTIGATION OF SITE:
CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE PROVIDING A BID

PRICE. ADVISE ENGINEER OF DISCREPANCIES OR QUESTIONS BEFORE BIDDING.

8. <u>COORDINATION:</u>
PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL

WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

9 PROVISIONS FOR OPENIN

9. PROVISIONS FOR OPENINGS:
PROVIDE ALL REQUIRED OPENINGS TO ACCOMPLISH THE WORK. PROVIDE SLEEVES OR OTHER APPROVED METHODS TO ALLOW PASSAGE OF ITEMS INSTALLED.

10. INTERRUPTION OF EXISTING SERVICES:

ANY INTERRUPTION OF EXISTING MECHANICAL AND ELECTRICAL SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE CITY REPRESENTATIVE. WEEKEND OR AFTER HOURS WORK IS ANTICIPATED TO PREVENT INTERRUPTION OF REGULAR OPERATION. EACH AHU MAY ONLY BE SHUT DOWN DURING WEEKEND HOURS. THIS INCLUDES, BUT IS NOT LIMITED TO, SERVICES PROVIDING CHILLED WATER, ELECTRICITY, OR OTHER CRITICAL SYSTEMS AS MAY BE PERTINENT TO THIS PARTICULAR PROJECT. SERVICE INTERRUPTION TIMES AND DURATION OF INTERRUPTION OF SERVICES SHALL BE DECIDED BY THE CITY. PROVIDE APPROPRIATE PROVISIONS (E.G., ISOLATION SHUT-OFF VALVES, DAMPERS, END CAPS, AND SIMILAR ITEMS) AS NECESSARY TO ACCOMMODATE THE REQUIRED SERVICE INTERRUPTIONS. IF SHUTDOWNS CANNOT BE ACCOMMODATED, PROVIDE MEANS FOR "WET" TAPPING OR "HOT" TAPPING OF PIPING SYSTEMS.

11. <u>CLEANING AND PROTECTION:</u>
EQUIPMENT: ALL MECHANICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY
CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER
VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE
EQUIPMENT MADE "LIKE NEW" AND TO THE SATISFACTION OF THE

UPON COMPLETION, AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE.

PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO "AS NEW" CONDITION OR REPLACED AT THE DIRECTION OF THE ENGINEER. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR, FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO "NEW" CONDITION. USE TEMPORARY FILTERS ON ACU-2 DURING CONSTRUCTION WORK.

12. SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS FOR ALL WORK INCLUDING ALL ITEMS, SERVICES AND
SYSTEMS PROVIDED FOR THE PROJECT.

SHOP DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING:

TECHNICAL AND DESCRIPTIVE DATA IN DETAIL EQUAL TO OR GREATER THAN THE DATA GIVEN IN THE ITEM SPECIFICATION. INDICATE ALL CHARACTERISTICS, SPECIAL MODIFICATIONS AND FEATURES. WHERE PERFORMANCE AND CHARACTERISTIC DATA IS SHOWN ON THE DRAWINGS OR SPECIFIED, SUBMITTED DATA SHALL BE PROVIDED IN A DEGREE WHICH IS BOTH QUANTITATIVELY AND QUALITATIVELY EQUAL TO THAT SPECIFIED AND SHOWN SO THAT COMPARISON CAN BE MADE. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAN THAT GIVEN IN ITEM SPECIFICATION AND INCLUDE ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES, PRESSURE DROPS, OPERATING TEMPERATURES, OPERATING CURVES, TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURERS' NAMES, MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS, GAUGES AND ALL OTHER RELATED INFORMATION AS APPLICABLE TO PARTICULAR ITEM.

EXCEPTIONS TO OR DEVIATIONS FROM THE CONTRACT DOCUMENTS. SHOULD ENGINEER ACCEPT ANY ITEMS HAVING SUCH DEVIATIONS WHICH ARE NOT CLEARLY BROUGHT TO ENGINEER'S ATTENTION, IN WRITING, ON ITEM SUBMITTAL, THEN CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH DEVIATIONS REGARDLESS OF WHEN SUCH DEVIATIONS ARE DISCOVERED.

13. SHOP DRAWINGS TECHNICAL INFORMATION BROCHURE:

NEAR CONCLUSION OF WORK AND NOT LESS THAN 10 DAYS PRIOR TO
SUBSTANTIAL COMPLETION INSPECTION, SUBMIT A TECHNICAL INFORMATION
DOCUMENT (TID) CONTAINING ALL FINAL SHOP DRAWING AND SUBMITTAL
INFORMATION FOR THE PROJECT. THIS TECHNICAL INFORMATION DOCUMENT
SHALL CONSIST OF ONE ELECTRONIC PDF COPY AND ONE OR MORE ADEQUATELY

SIZED, HARD-COVER, 3-RING BINDER FOR 8-1/2" X 11" SHEETS.

SHOP DRAWING TECHNICAL AND DESCRIPTIVE DATA SHALL BE INSERTED IN THE TID IN PROPER ORDER ON ALL ITEMS. PROVIDE COMPLETE INFORMATION, INCLUDING, BUT NOT LIMITED TO, WIRING AND CONTROL DIAGRAMS, SCALE DRAWINGS SHOWING THAT PROPOSED SUBSTITUTE EQUIPMENT WILL FIT INTO ALLOTTED SPACE (INDICATE ALL SERVICE ACCESS, CONNECTIONS, ETC.), TEST DATA, AND OTHER DATA REQUIRED TO DETERMINE IF EQUIPMENT COMPLIES FULLY

WITH THE SPECIFICATIONS.

14. OPERATING INSTRUCTIONS:
SUBMIT FOR CHECKING A SPECIFIC SET OF WRITTEN OPERATING INSTRUCTIONS ON EACH ITEM WHICH REQUIRES INSTRUCTIONS TO OPERATE. AFTER ACCEPTANCE,

INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

INFORMATION DOCUMENT.

15. MAINTENANCE INFORMATION:
SUBMIT FOR ACCEPTANCE MAINTENANCE INFORMATION CONSISTING OF
MANUFACTURER'S PRINTED INSTRUCTION AND PARTS LISTS FOR EACH MAJOR ITEM
OF EQUIPMENT. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL

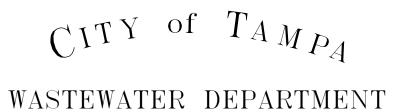
CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA
 BUILDING CODE (FBC) 6TH EDITION (2017), THE NATIONAL ELECTRICAL CODE
 (NEC) 2014 EDITION AND CHAPTER 5 OF THE CITY OF TAMPA CODE.

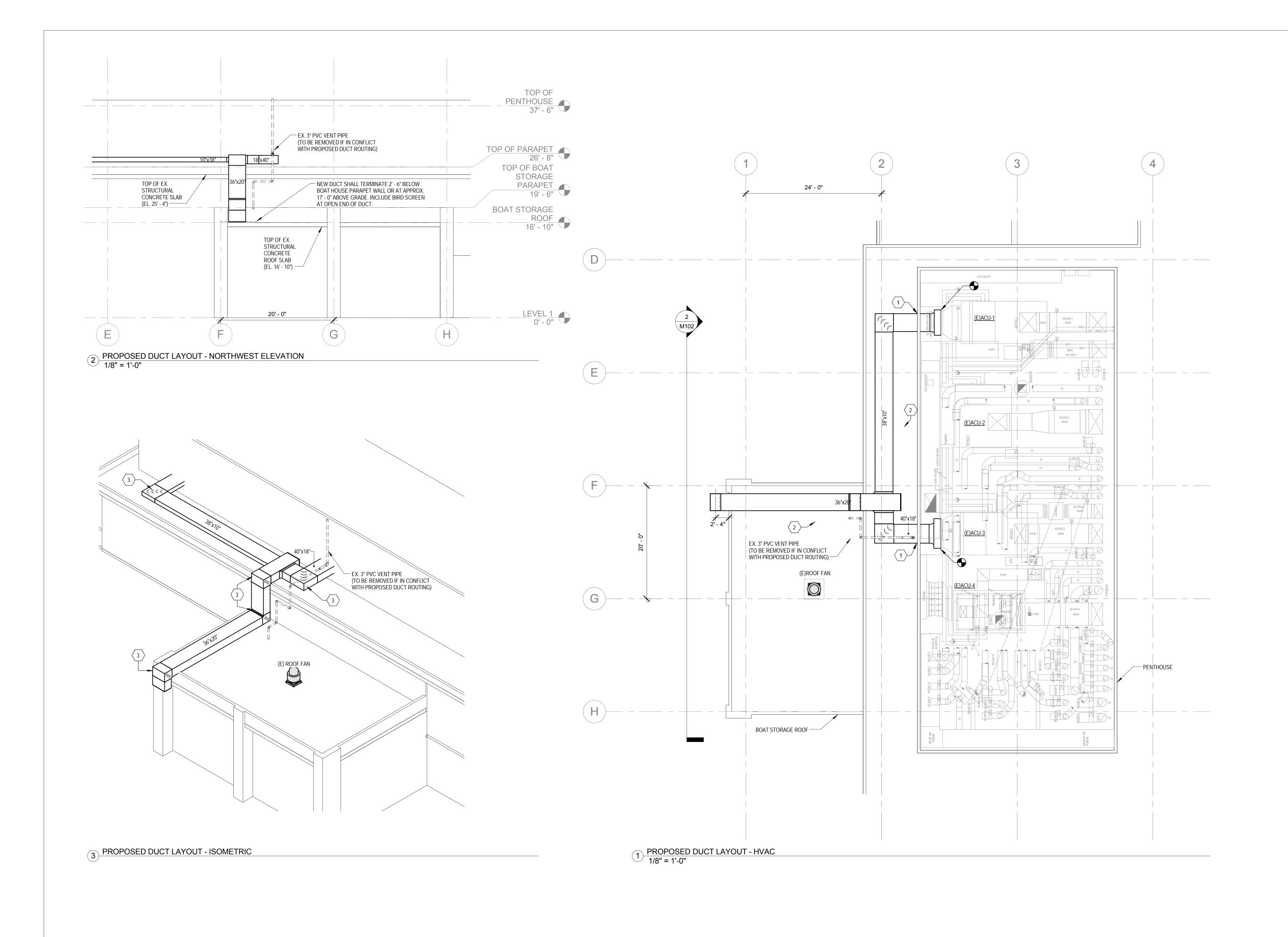
NUMBER	SHEET NAME	
M000	MECH. LEGENDS, SYMBOLS, AND NOTES	
M102	PROPOSED DUCT LAYOUT - HVAC	
M801	MECHANICAL DETAILS	



No.	DATE	REVISIONS	DES:	AC W[
3			DRN:	
2			CKD:	DAC
1			DATE:	05/25/18



100% CONSTRUCTION DOCUMENTS

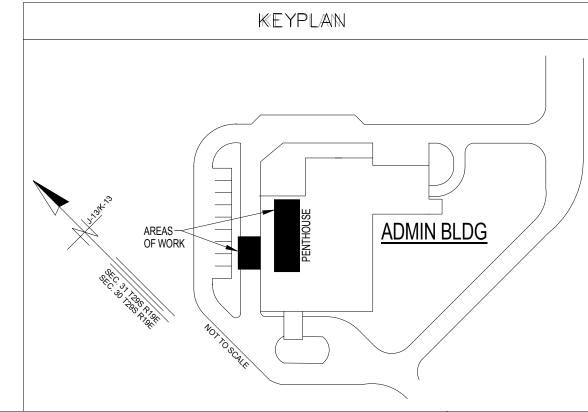


GENERAL NOTES

- PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKEOFFS SERVING SINGLE DIFFUSER, GRILLE, OR REGISTER.
- B. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS.
- MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCTWORK AND RATED WALLS.
- COORDINATE DUCTWORK WITH STRUCTURE. PREPARE COORDINATION DRAWINGS AS SPECIFIED.
- PROVIDE REMOTE DAMPER OPERATORS FOR VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.
- PROVIDE ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED CLEARANCES FOR ALL EQUIPMENT.
- PROVIDE A TAB REPORT FOR ACU-1 AND ACU-3 AFTER CONSTRUCTION IS COMPLETED TO CONFIRM THEY ARE PERFORMING AS DESIGNED.
- ALL HARDWARE, MOUNTINGS, SUPPORTS, FASTENERS, DUCTWORK, ETC. SHALL BE STAINLESS STEEL.
- ALL DIMENSIONS SHOWN ON THIS PLAN ARE BASED ON OWNER PROVIDED FIELD MEASUREMENTS. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS BEFORE

KEYNOTES (#)

- PENETRATE EXISTING LOUVER WITH NEW DUCTWORK AT THIS LOCATION.
- EXISTING BUILT UP INSUATED ROOF SYSTEM WILL NEED TO BE REMOVED AT DUCT SUPPORTS' BASE LOCATIONS AND REPAIRED, AS PER MANUFACTURERS RECOMMENDATION, AFTER DUCT CUPPORTS ARE IN PLACE. SEE SPECIFICATIONS FOR
- RECTANGULAR 90° ELBOWS ARE REQUIRED AT THESE 5 POINTS TO MINIMIZE THE PROFILE OF THE PROPOSED DUCT BEYOND THE EXISTING PROFILE OF THE BUILDING, AND FOR OTHER DIMENSIONAL SPACING RESTRICTIONS.



PROPOSED DUCT LAYOUT -**HVAC**

VOLT-AIR 220 West 7th Avenue, Suite 210 Tampa, Florida 33602 Tel: 888.891.9713 www.VoltAirInc.com

COA 27158

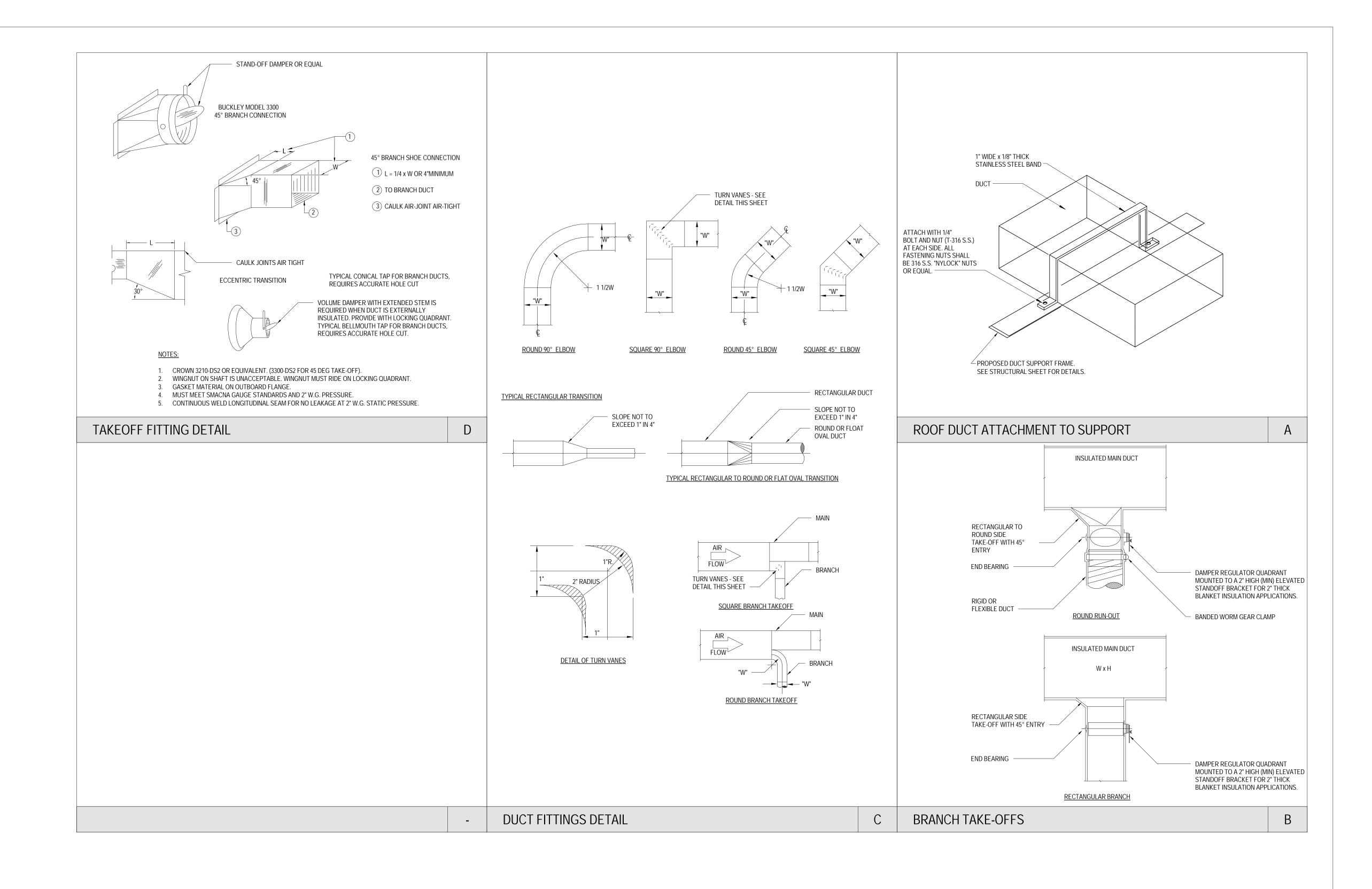
Project No. 15121

No. DATE REVISIONS DES: AC WD DRN: CKD: DAC DATE: 05/25/18

CITY of TAMPA WASTEWATER DEPARTMENT

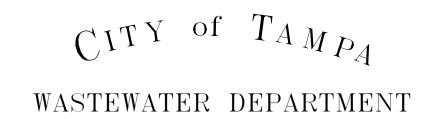
HFC AWTP ADMINISTRATION BUILDING AIR TREATMENT SYSTEM

100% CONSTRUCTION DOCUMENTS



VOLT	AIK.
CONSULTING EN	GINEERS
220 West 7th Avenue, Su Florida 33602 Tel: 88	•
www.VoltAirInc	.com
COA 27158 Pro	ject No. 15121

No.	DATE	REVISIONS	DES:	AC WD
3			DRN:	
2			CKD:	DAC
1			DATE:	05/25/18



HFC AWTP ADMINISTRATION BUILDING AIR TREATMENT SYSTEM				
AII TIEATMENT SISIEM				
100% CONSTRUCTION DOCUMENTS				

MECHANICAL	DETAILS
------------	----------------



GENERAL STRUCTURAL NOTES

GENERAL NOTES:

FOLLOWING:

- 1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE
- ATTENTION OF THE ENGINEERS.

 2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
- 3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
- IN PROGRESS UNTIL THE BUILDING IS COMPLETED.

 4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE
- A. THE FLORIDA BUILDING CODE, (6TH EDITION) 2017.
 B. ASCE 7-10 (WITH ERRATA DATED JANUARY11, 2011) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
- 5. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.

WIND DESIGN DATA:

CODE: FLORIDA BUILDING CODE 2017, 6th Ed. ASCE/SEI 7-10

BASIC WIND SPEED

141 mph (ULT)
109 mph (ASD)

CATEGORY (RISK)

EXPOSURE

BUILDING HEIGHT

C

h < 30ft.

DESIGN WIND PRESSURE (PSF) 37.5 -PSF(ULTIMATE) 22.5 -PSF(SERVICE)

SHOP DRAWINGS:

- NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP
- DRAWINGS.

 2. ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
- 3. DETAILER SHALL CHECK ALL MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL
- ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.

 4. ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF
- FORMAT.

 5. COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS: BUT IN NO CASE SHALL DETAIL.
- CONJUNCTION WITH DETAIL DRAWINGS; BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
- 6. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.

SEE SPECIFICATIONS.

- 7. CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND
- CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.

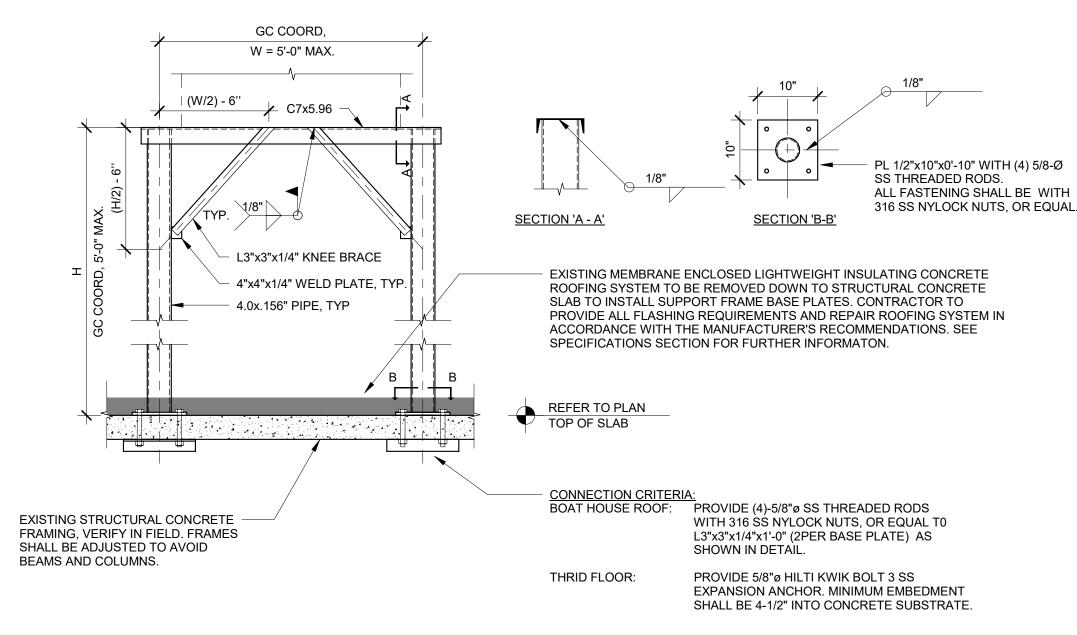
 8. DETAILER SHALL USE THE SAME STRUCTURAL ELEMENTS NUMBERS IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
- 9. CONTRACTOR TO SUBMIT DETAILS FOR THE REMOVAL OF BUILT-UP INSULATED ROOFING SYSTEM, IN ORDER TO INSTALL SUPPORT FRAMES; AND, FOR THE REPAIRING OF THE ROOFING SYSTEM AFTER SUPPORT FRAMES ARE INSTALLED.

PARTIAL THIRD PLOOP. STORY PARTIAL THIRD PLOOP. PART

EXISTING PARTIAL ROOF PLAN G

SCALE: 3/16" = 1'-0"

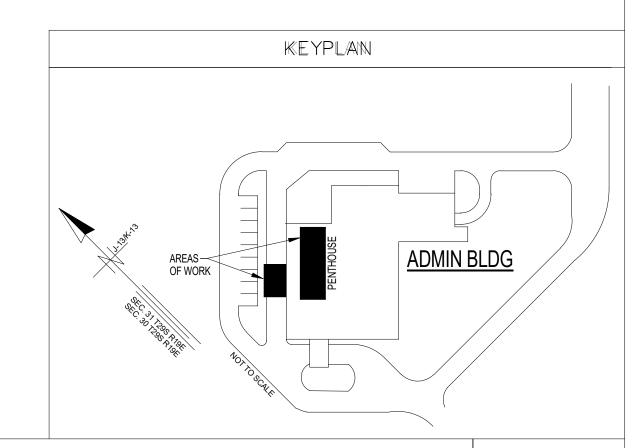
- EXTERIOR BOAT HOUSE WALL BELOW.



S1 - DUCT SUPPORT FRAME h<5'-0"

NOTE

- ALL FRAMING TO BE 6061-T6 STEEL TO BE STAINLESS STEEL.
- 2. GC TO COORDINATE WIDTH, HEIGHT, AND LOCATIONS BASED ON MECHANICAL REQUIREMENTS AND FIELD CONDTIONS.
- PROVIDE STAINLESS STEEL STRAP OVER DUCTWORK TO SUPPORT AS SHOWN IN MECHANICAL DRAWINGS.
 FOR FRAME HEIGHT H < 2'-0", DIAGONAL KNEE BRACING NOT REQUIRED.





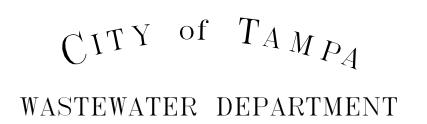
Project No. 15121

COA 27158



	No.	DATE	REVISIONS	DES:	RLB
	3			DRN:	
	2			CKD:	RLB
IY INC. 5	1			DATE:	05/25/18
	•	-			

(G)-



HFC AWTP ADMINISTRATION BUILDING
AIR TREATMENT SYSTEM
-

100% CONSTRUCTION DOCUMENTS

DUCT SUPPORT FRAMING

SHEET **S100**