

DATE: 05/25/18

100% CONSTRUCTION DOCUMENTS

SHEET INDEX		
NUMBER	SHEET NAME	
C000	COVER SHEET	
M000	MECH. LEGENDS, SYMBOLS, AND NOTES	
M102	PROPOSED DUCT LAYOUT - HVAC	
M801	MECHANICAL DETAILS	
S100	DUCT SUPPORT FRAMING	

COVER SHEET



AIR DISTRIBUTION

SYMBOL	DESCRIPTION
TY TAG 2A(100) CFM	AIR DISTRIBUTION DEVICE: SUPPLY (4-WAY BLOW UNLESS INDICATED BY FLOW ARROWS)
TYTAG 2B(100) CFM	AIR DISTRIBUTION DEVICE: RETURN
TYTAG 2B(100) CFM	AIR DISTRIBUTION DEVICE: EXHAUST
[]	AIR TERMINAL DEVICE: SIDEWALL MOUNTED RETURN OR SUPPLY
-DG	DOOR GRILLE: SEE ARCHITECTURAL DRAWINGS
	UNDERCUT DOOR: SEE ARCHITECTURAL DRAWINGS

GENERAL	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
VAV	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
	REVISION REFERENCE
1 M-1	DETAIL REFERENCE: TOP: DETAIL # BOTTOM: DRAWING # DETAIL SHOWN ON
Ó	NEUTRAL RELATIVE PRESSURE
<u>_</u> +_	POSITIVE RELATIVE PRESSURE
<u></u>	NEGATIVE RELATIVE PRESSURE
#	KEY NOTE CALLOUT

HVAC ABBRE	EVIATIONS		
AFF			
AFR	ABOVE FINISHED FLOOR ABOVE FINISHED ROOF		
AFR	AIR HANDLING UNIT		
AP	ACCESS PANEL		
BOP	BOTTOM OF PIPE		
BHP	BRAKE HORSEPOWER		
BTU	BRITISH THERMAL UNIT		
CFM			
CHWR			
CHWS			
CT			
CU			
DDC	DIRECT DIGITAL CONTROLS		
DN			
EAT			
EDH			
EF			
ESP			
EWT			
FCU			
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		

LIFE SAFETY					
SYMBOL	DESCRIPTION				
FD AD	FIRE DAMPER WITH ACCESS DOOR PANEL				
SD AD	SMOKE DAMPER WITH ACCESS DOOR PANEL				
FSD	FIRE AND SMOKE DAMPER WITH ACCESS DOO				
	EXISTING FIRE DAMPER TO REMAIN WITH ACCI PANEL, UNLESS OTHERWISE NOTED				
	EXISTING FIRE AND SMOKE DAMPER TO REMA ACCESS PANEL, UNLESS OTHERWISE NOTED				
	DUCT SMOKE DETECTOR				



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

EQUIPMEN	Т	DUCTWORK	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXHAUST DUCT UP TO FAN ABOVE	24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUC
(LZ) <u>F-1</u>	EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW		NEW DOUBLEWALL DUCTWORK DO NOT EXTERNALLY WRAP
<u>F-1</u>	IN-LINE CENTRIFUGAL FAN		DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
QUIP.	P-TRAP		DUCT ELBOW NEGATIVE PRESSURE (EXHAUST)
			DUCT ELBOW NEGATIVE PRESSURE (RETURN)
HVAC PIPIN	IG SYMBOL LEGEND		
CHWS	CHILLED WATER SUPPLY		CHANGE OF ELEVATION
CHW R	CHILLED WATER RETURN CONDENSATE		FLEXIBLE DUCT
CR	CONDENSATE RETURN		TRANSITION, CONCENTRIC
PC HWR	PUMPED CONDENSATE HOT WATER RETURN		
HWS	HOT WATER SUPPLY FLOW DIRECTION		TRANSITION, ECCENTRIC
X	GATE VALVE	- 10x8 81	TRANSITION, SQUARE TO ROUND
¢	BALL VALVE CALIBRATING BALANCING VALVE		SQUARE THROAT ELBOW WITH TURNING VANES
ф	BUTTERFLY VALVE GAS COCK		RADIUS ELBOW
			RECTANGULAR / ROUND BRANCH TAKE-OFF OR
 入	STRAINER CONTROL VALVE		ROUND / ROUND BRANCH TAKE-OFF
\$	SOLENOID VALVE	24x12	RECTANGULAR DUCTWORK
¥	PSI REG.	24/12	FLAT OVAL DUCTWORK
N	CHECK VALVE FLOW SWITCH	24/12	FLAT OVAL DOCTWORK
	FLEX CONNECTION	80	ROUND DUCTWORK
——————————————————————————————————————	O.S.&Y. GATE VALVE		
ţ	THREE-WAY CONTROL VALVE	DUCT ACCE	
μ	THERMOMETER	SYMBOL	DESCRIPTION
EQUIP	P-TRAP	SA-1	SOUND ATTENUATOR
	TWO-WAY CHECK VALVE		MOTOR OPERATED CONTROL DAMPER (MOD)
MV H	MANUAL VENT	FM	AIR FLOW MEASURING STATION
	PRESSURE GAUGE		MANUAL BALANCING DAMPER
	ELBOW, TURNED DOWN ELBOW, TURNED UP		
	TEE, OUTLET DOWN		ACCESS DOORS, VERTICAL OR HORIZONTAL
	TEE, OUTLET UP		FLEXIBLE CONNECTION
CONTROLS			CFM SENSOR
SYMBOL	DESCRIPTION		
T	THERMOSTAT / TEMPERATURE SENSOR		BACKDRAFT DAMPER
H	HUMIDISTAT / HUMIDITY SENSOR		
M	MOTORIZED CONTROL DAMPER		
TS	TEMPERATURE SENSOR		
P	PRESSURE SENSOR		
	CO2 SENSOR		

CITY of TAMPA

WASTEWATER DEPARTMENT

100% CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. <u>SCOPE:</u>

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. DRAWINGS:

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. <u>DISCREPANCIES:</u>

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. AUXILIARIES AND ACCESSORIES:

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. COORDINATION:

PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

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. CLEANING AND PROTECTION:

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 ENGINEER.

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.

CODE COMPLIANCE

1. 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.

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.

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 INFORMATION DOCUMENT.

SHEET INDEX

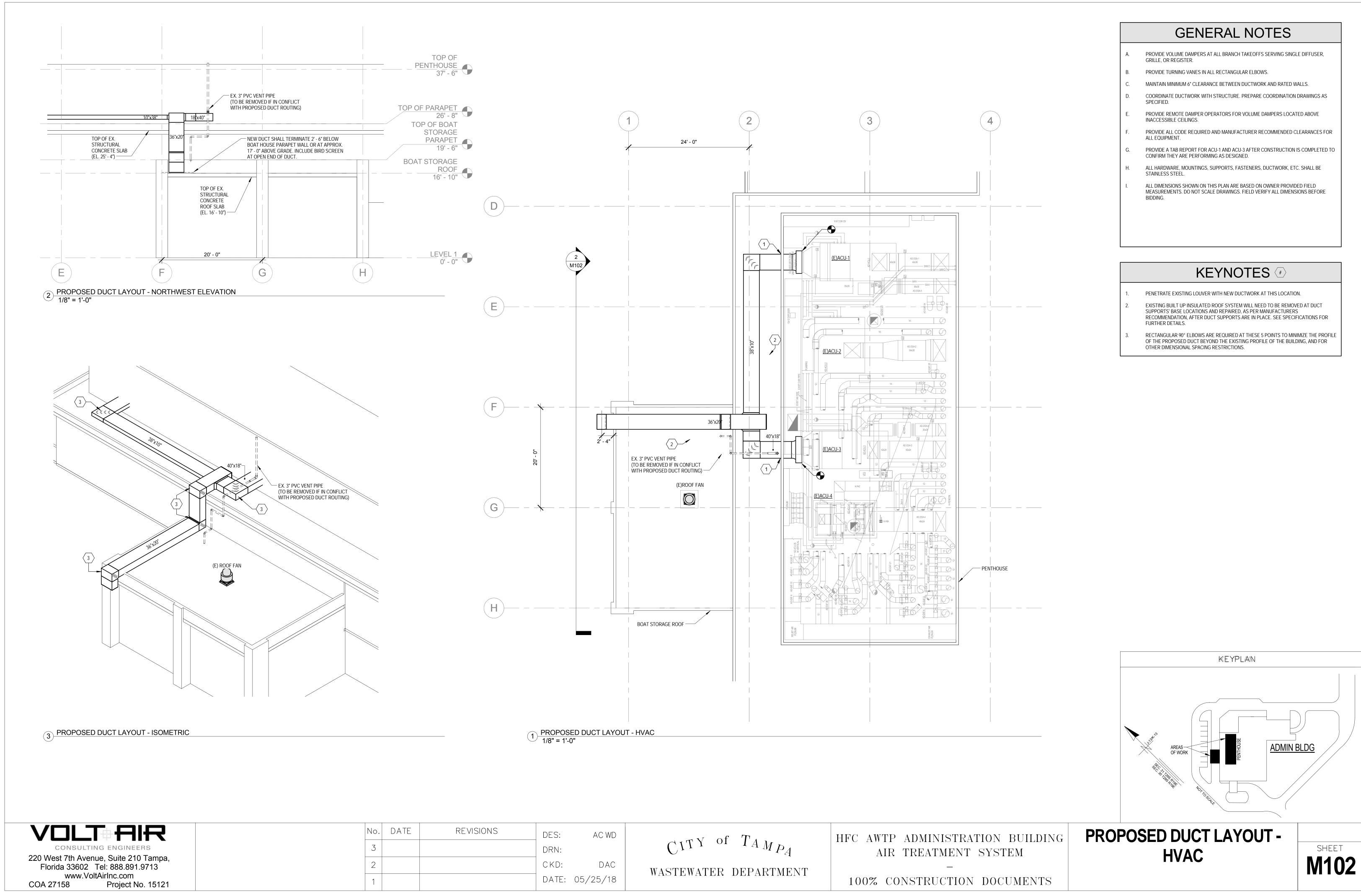
NUMBER M000 MECH. LEGENDS, SYMBOLS, AND NOTES M102 PROPOSED DUCT LAYOUT - HVAC M801 MECHANICAL DETAILS

SHEET NAME

HFC AWTP ADMINISTRATION BUILDING AIR TREATMENT SYSTEM

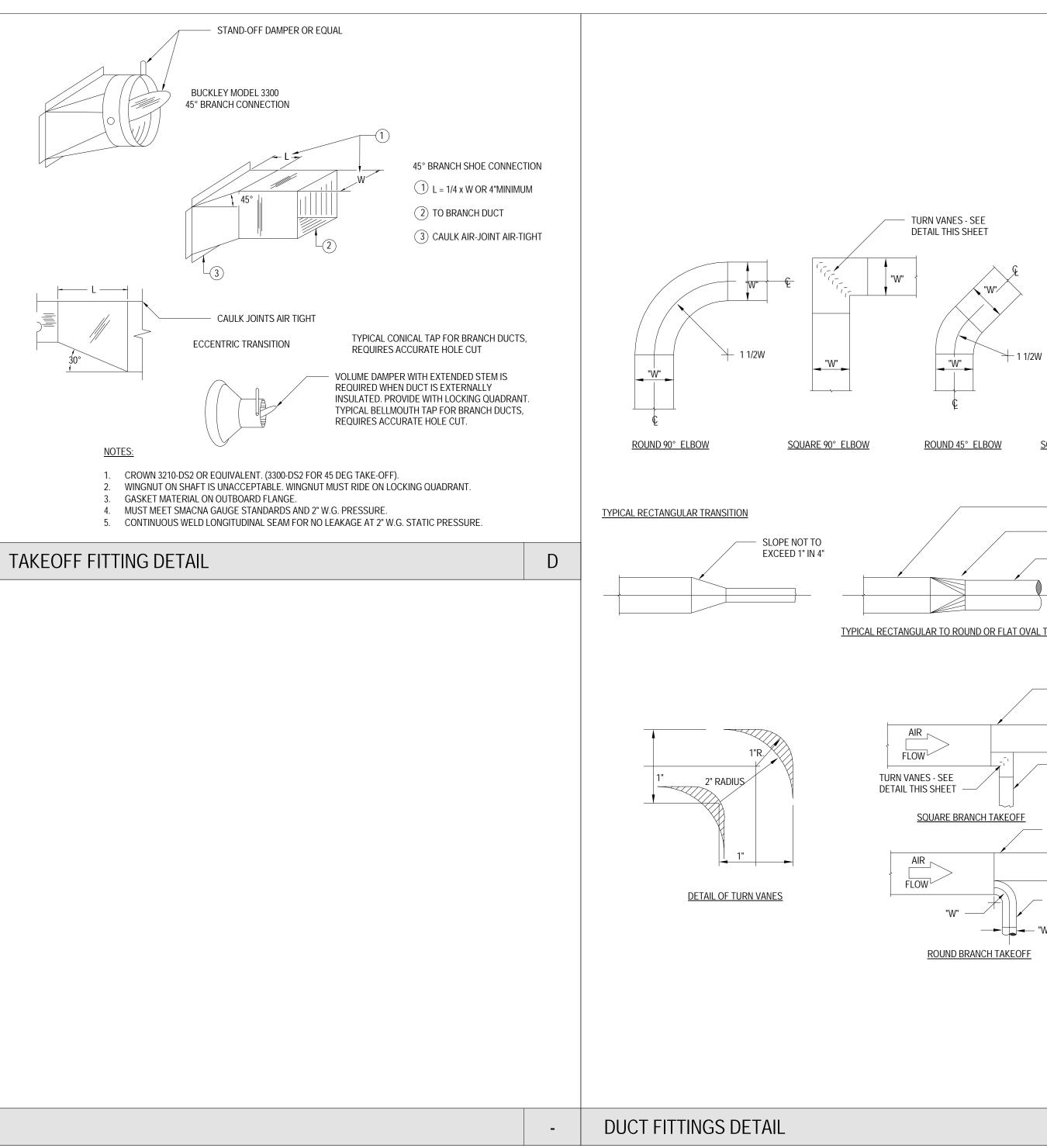
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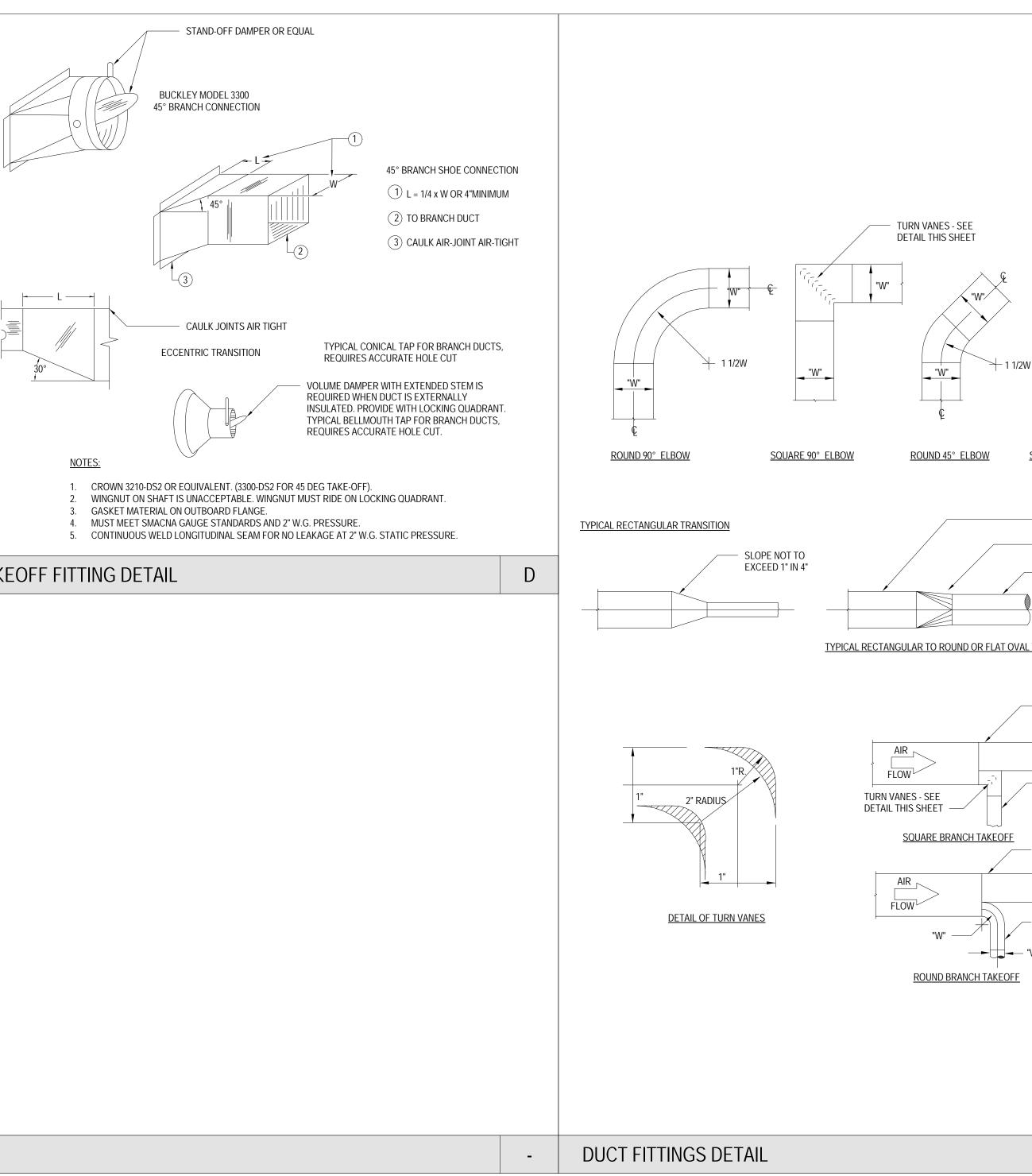


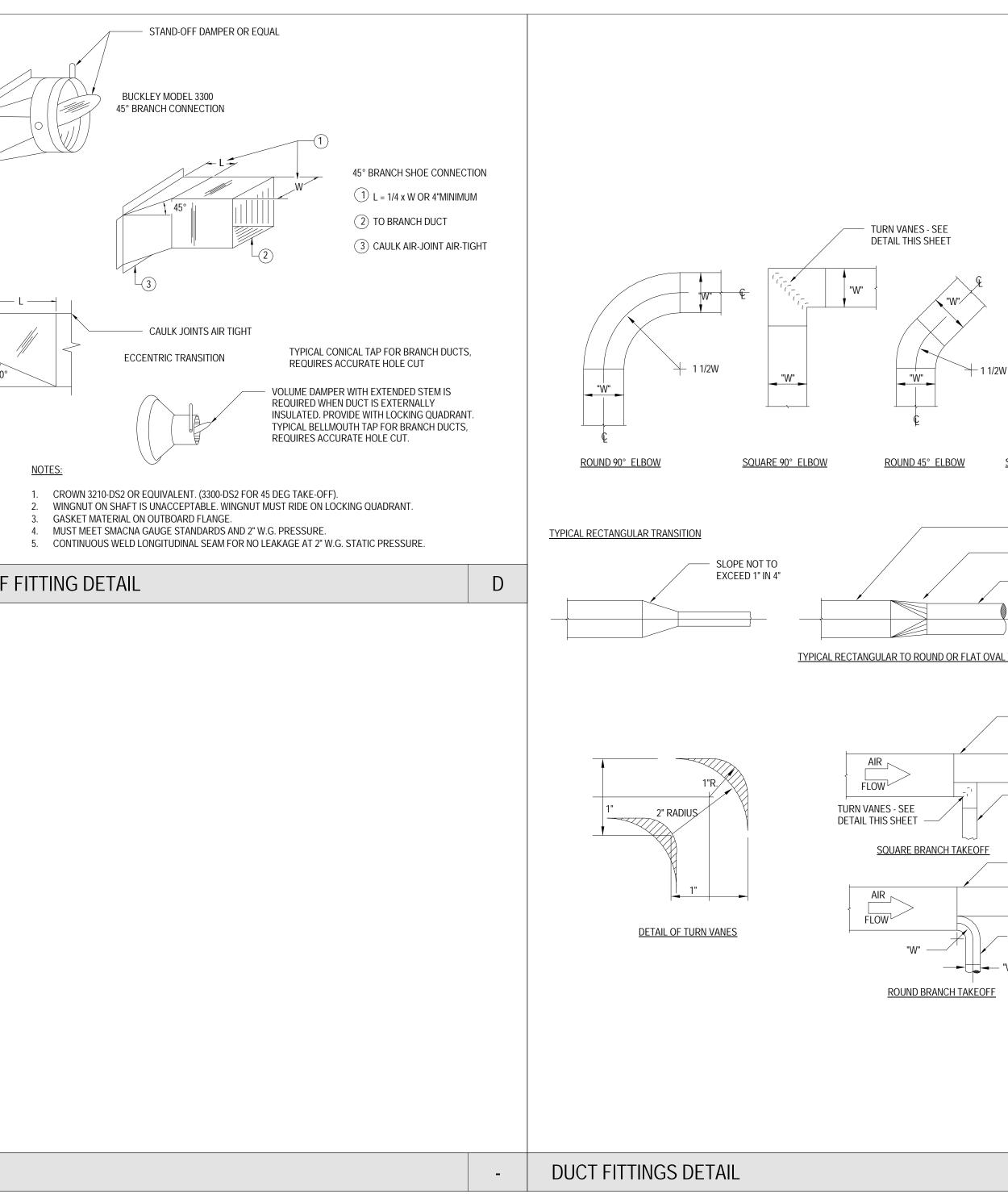


CKD: DAC WASTEWATER DEPARTMENT	REVISIONS	DES: DRN:	AC WD	CITY of TAMPA	HFC AWTP ADMINIS
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REVISIONS	DES: DRN: CKD:	AC WD DAC	CITY of T_{AMP_A} wastewater department	HFC AWTP ADMINISTRA AIR TREATMENT
	DATE:	05/25/18	WASTEWATER DEPARTMENT	100% CONSTRUCTION

SLOPE NOT TO EXCEED 1" IN 4" ROUND OR FLOAT OVAL DUCT	ROOF DUCT ATTACHMEN			
ANSITION		NT TO SUPPORT		A
BRANCH	RECTANGULAR TO ROUND SIDE TAKE-OFF WITH 45° ENTRY END BEARING RIGID OR FLEXIBLE DUCT	INSULATED MAIN DUCT	DAMPER REGULATOR QUA MOUNTED TO A 2" HIGH (M STANDOFF BRACKET FOR BLANKET INSULATION APP BANDED WORM GEAR CLA	IN) ELEVATED 2" THICK LICATIONS.
	RECTANGULAR SIDE TAKE-OFF WITH 45° ENTRY END BEARING		DAMPER REGULATOR QUA MOUNTED TO A 2" HIGH (M STANDOFF BRACKET FOR BLANKET INSULATION APP	IN) ELEVATED 2" THICK
С	BRANCH TAKE-OFFS	RECTANGULAR BRANCH		В

CTION DOCUMENTS

M801

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

- 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.
- 4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
 - 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.
- 6. AIR DUCT ROUTING AND AIR DUCT SUPPORT SYSTEM SHALL BE DESIGNED AND INSTALLED SO AS TO AVOID DISTURBING THE EXISTING ALUMINUM CLAD BASE FLASHING MEMBRANE THAT IS INSTALLED ON THE INNER PARAPET WALLS AND WHICH TRANSITIONS ONTO THE ROOFING SURFACES EXTENDING APPROXIMATELY 10-INCHES OUT FROM EACH WALL.

WIND DESIGN DATA:

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

BASIC WIND SPEED

CATEGORY (RISK) EXPOSURE BUILDING HEIGHT

DESIGN WIND PRESSURE (PSF)

141 mph (ULT) 109 mph (ASD) h < 30ft. 37.5 -PSF(ULTIMATE) 22.5 -PSF(SERVICE)

- SHOP DRAWINGS:
- 1. 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 ATTACHM CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. 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 DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS. 6. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH
- EACH SHOP DRAWING SUBMITTAL. 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, SEE SPECIFICATIONS FOR BALANCE OF CRITERIA.



Project No. 15121

COA 27158



CA: 8426

CONSULTING STRUCTURAL CONSULTANTS 5523 WEST CYPRESS ST., STE.200 TAMPA, FLORIDA 33607-1735 P | 813.287.3600 F | 813.287.3622 THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF MASTER 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.

PROJ NO. 2030-115

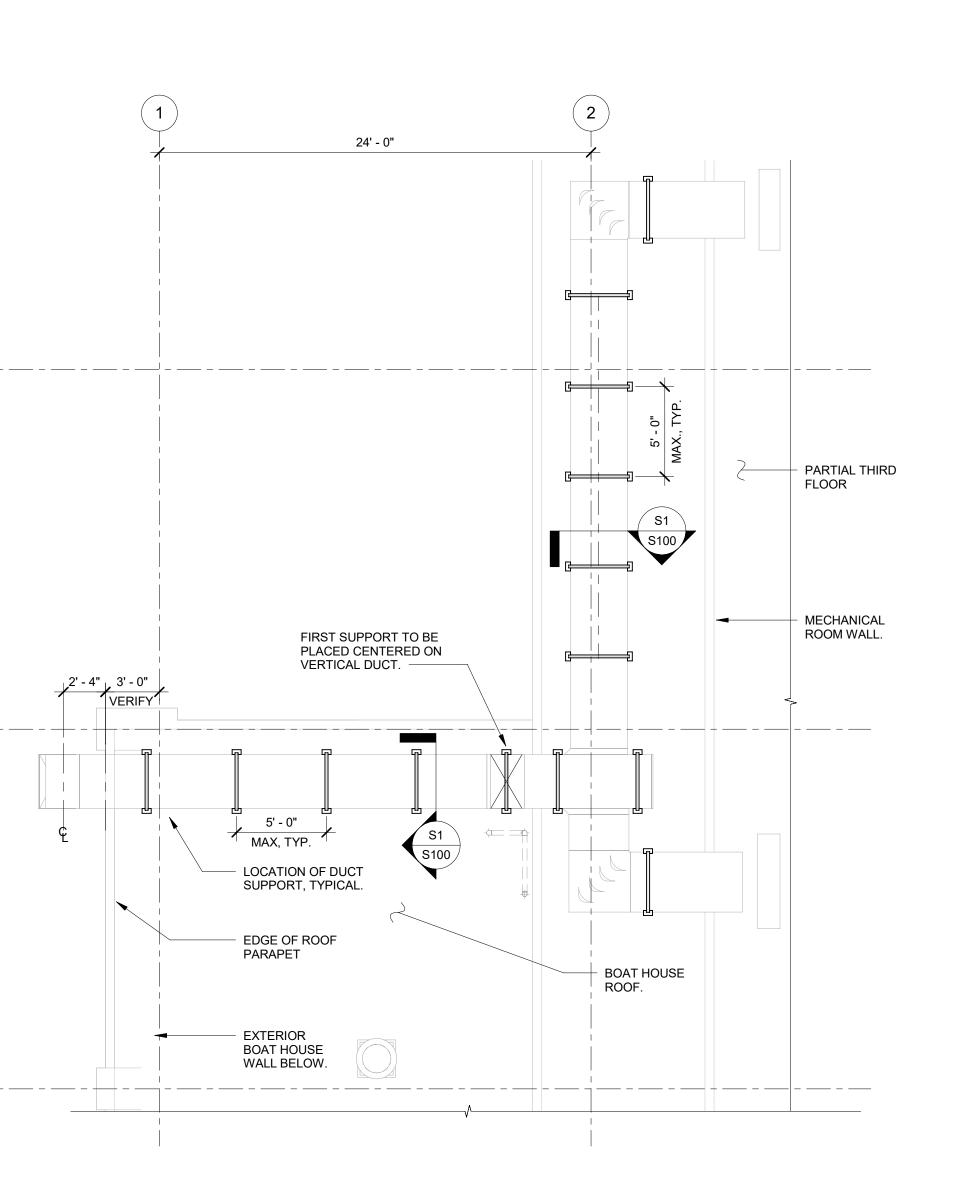
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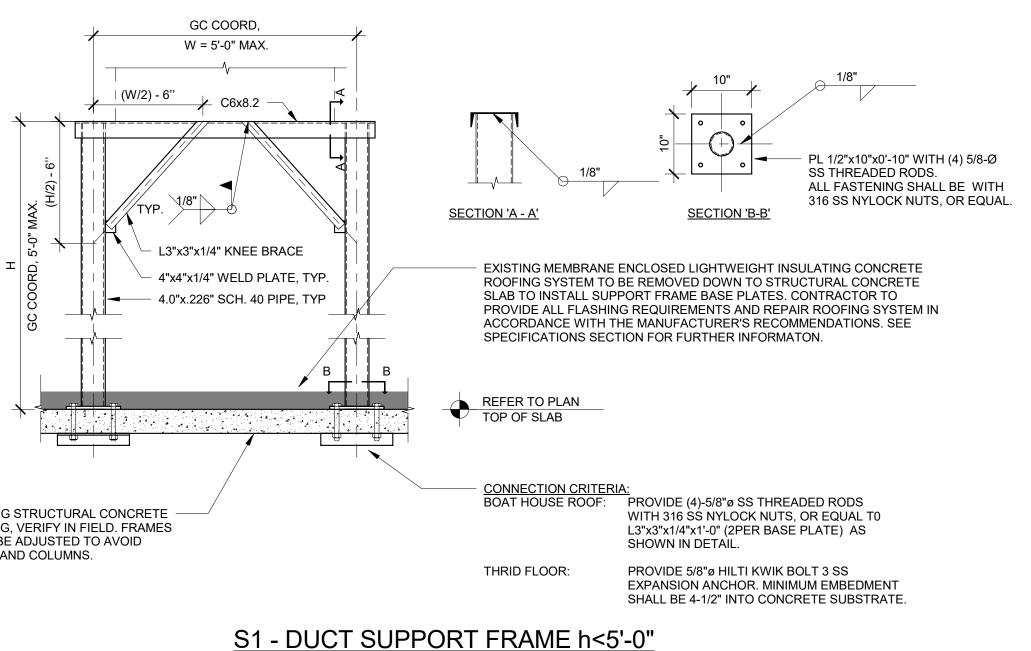
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(G)-`



EXISTING PARTIAL ROOF PLAN G SCALE: 3/16" = 1'-0"

REVISIONS DES: RLB CITY of TAMPA DRN: CKD: RLB WASTEWATER DEPARTMENT DATE: 05/25/18



EXISTING STRUCTURAL CONCRETE FRAMING, VERIFY IN FIELD, FRAMES SHALL BE ADJUSTED TO AVOID BEAMS AND COLUMNS.

- NOTES 1. ALL FRAMING TO BE T-304L STAINLESS STEEL.
- 2. GC TO COORDINATE WIDTH, HEIGHT, AND LOCATIONS BASED ON MECHANICAL REQUIREMENTS AND FIELD CONDITIONS.
- 3. PROVIDE STAINLESS STEEL STRAP OVER DUCTWORK TO SUPPORT
- AS SHOWN IN MECHANICAL DRAWINGS. 4. FOR FRAME HEIGHT H < 2'-0", DIAGONAL KNEE BRACING NOT REQUIRED.

