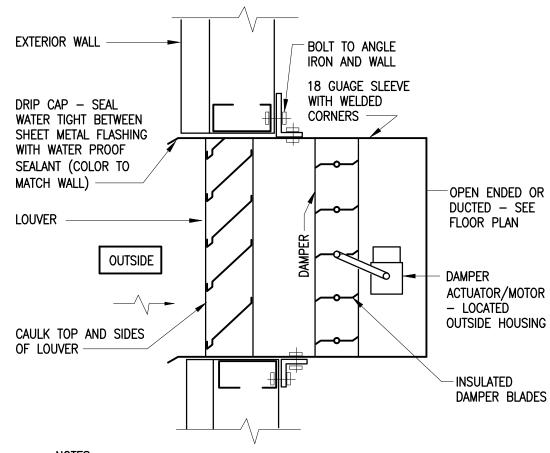
SEQUENCE: FIRE CONDITION: WHEN TEMPERATURE IN EXCESS OF 212° F IS DETECTED. THE DAMPER SHALL CLOSE. SMOKE CONDITION: CONNECT THE DUCT SMOKE DETECTOR TO THE BUILDING FIRE ALARM SYSTEM. UPON DETECTION OF SMOKE BY THE DUCT SMOKE DETECTOR THE SMOKE DAMPER SHALL CLOSE & A SIGNAL SHALL BE SENT TO THE BUILDING FIRE ALARM SYSTEM. ALSO, THE FAN SERVING THE RISER SHALL BE SHUT DOWN BY A SIGNAL FROM THE DUCT SMOKE DETECTOR. AFTER THE "SMOKE" SIGNAL CEASES. THE SMOKE DAMPER SHALL RESET & OPEN AND THE FAN SHALL BE CAPABLE OF BEING ENERGIZED.

- DAMPER SHALL BE CLASS II LEAKAGE RATED, 250°F ACTUATOR RATING, POWER OPEN SPRING RETURN NORMALLY CLOSED.
- DAMPER SHALL BE TRIPLE V-GROOVE CONSTRUCTION (FLAT STEEL REINFORCED). FACTORY INSTALLED ACTUATOR — CANNOT BE FIELD INSTALLED.
- FOLLOW MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR THE NEED TO PROVIDE ANGLES OR FLANGES.
- DAMPERS SHALL MEET THE REQUIREMENTS OF BOTH UL555 AND UL555S SMOKE DAMPER STANDARDS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL SUPERCEDE NOTES OF THIS DETAIL.
- DAMPER SHALL HAVE AN ELECTRIC FUSE LINK. DAMPER SHALL BE EQUAL TO NAILOR MODEL 1221-OW, RUSKIN FSD360W, OR GREENHECK OFSD. MODEL NUMBERS ARE A GUIDE. PROVIDE MODELS THAT ARE APPROVED BY MANUFACTURER FOR THIS APPLICATION.
- THE DAMPER SHALL BE CAPABLE OF RESETTING AFTER THE SIGNAL TO CLOSE CEASES. PROVIDE AN ACTUATOR TO CLOSE & OPEN DAMPER WHEN NECESSARY (SEE SEQUENCE ABOVE). HVAC TO INSTALL SMOKE DETECTOR, FIRE ALARM CONTRACTOR TO PROVIDE SMOKE DETECTOR, ELECTRICAL TO PROVIDE POWER. SMOKE DETECTOR TO BE MONITORED BY BUILDING FIRE ALARM SYSTEM. ALL DISCIPLINES TO

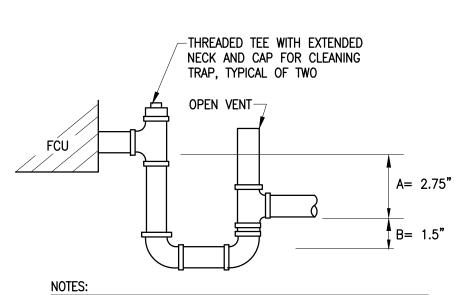
## FIRE/SMOKE DAMPER AT SHAFT WALL DETAIL



NOTES: 1. WALL LOUVER & DAMPER ASSEMBLY SHALL BE SUPPORTED BY BUILDING PROVIDER/MANUFACTURER. COORDINATE BETWEEN TRADES. OPERATION OF DAMPER SHALL BE THRU ONE ACTUATOR

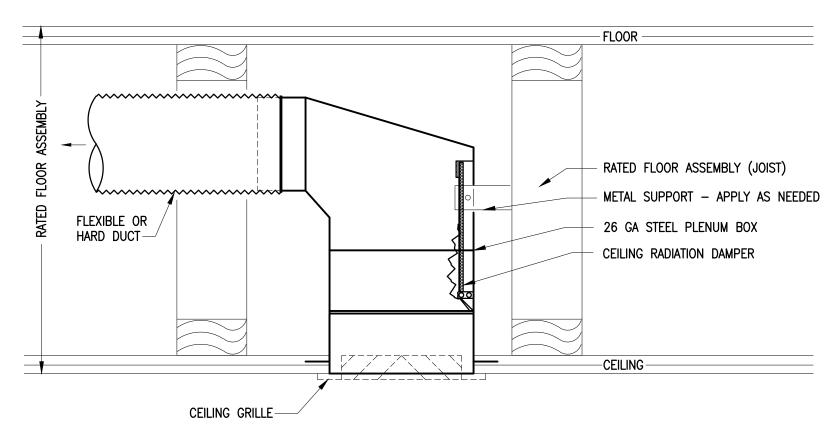
CONTROL DAMPER SHALL HAVE THE FOLLOWING CHARACTERISTICS: EXTRUDED ALUMINUM BLADES AND FRAME, BLADES SHALL BE FLAT TYPE 0.125" THICK. BLADE EDGE SEALS SHALL BE NEOPRENE AND MECHANICALLY LOCKED IN EXTRUDED SLOTS (BLADES SEALS SHALL BE DESIGNED FOR EASY REPLACEMENT IN THE FIELD), LINKAGE SHALL BE CONCEALED IN FRAME, BEARINGS SHALL BE NONCORROSIVE MOLDED SYNTHETIC, PERFORMANCE DATA SHALL BE OBTAINED BY TESTING IN ACCORDANCE WITH AMCA STANDARD 500. PERFORMANCE: PRESSURE DROP SHALL NOT BE GREATER THAN 0.04" AT 1000 FPM AND LEAKAGE SHALL NOT BE GREATER THAN 3 CFM/SQ FT WITH A 1" STATIC PRESSURE CLOSED OVER A 18"X12" SIZE. DAMPER SHALL BE OPPOSED OR PARALLEL BLADE CONFIGURATION. 4. DAMPER SHALL BE NORMALLY CLOSED (FAIL CLOSED)

> WALL LOUVER DETAIL SCHEMATIC - NO SCALE



- MINIMUM DRAIN FOR FCU 5 TONS AND LESS SHALL BE 1 DRAIN FOR FCU GREATER THAN 5 TONS SHALL BE 1.25" DETAIL IS FOR A DRAW THRU UNIT. CONTACT ENGINEER FOR A DIFFERENT TRAP CONFIGURATION IF A BLOW THRU UNIT IS
- 4. SEE GENERAL NOTES ON MO-01 FOR PIPE MATERIAL

#### CONDENSATE DRAIN TRAP DETAIL SCHEMATIC - NO SCALE



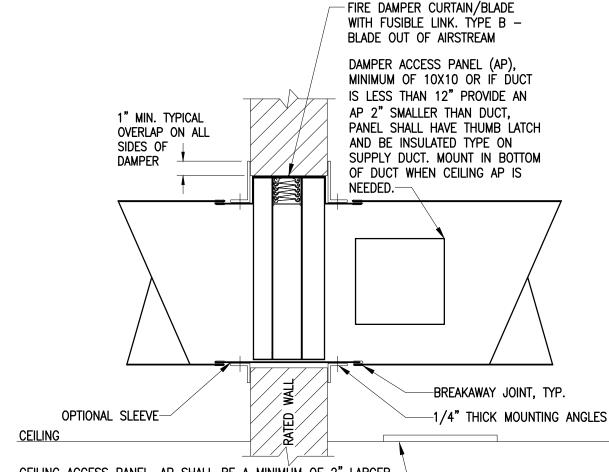
1. CEILING RADIATION DAMPER SHALL BE UL 263 AND 555C CLASSIFIED WITH 1 HOUR RATED FOR USE IN UL FLOOR/CEILING (E.G. WOOD TRUSS)

- 2. INSTALLED DAMPER SHALL BE TESTED IN ACCORDANCE WITH UL ASSEMBLY OR ASSEMBLIES LISTED ON THE ARCHITECTURAL DRAWINGS. PROVIDE UL DOCUMENTATION WITH SUBMITTAL INDICATING THAT THE CRD IS AN APPROVED MODEL FOR THE UL ASSEMBLY WHERE CRDS ARE TO BE INSTALLED. DOCUMENTATION CAN BE FOUND IN THE UL ONLINE CERTIFICATIONS DIRECTORY.
- ADDITIONAL REVIEW: CONTRACTOR SHALL SUBMIT AN ADDITIONAL REVIEW TO THE ARCHITECT TO CONFIRM THE UL ASSEMBLIES THAT ARE APPLICABLE TO THE PROJECT. 4. DAMPER SHALL BE RECTANGULAR TO MATCH DUCT GRILLE SIZE AND SHALL OPERATE WITH A UL LISTED FUSIBLE LINK (165°). PROVIDE DAMPER
- WITH INSULATION (UL LISTED) ON BACKSIDE OF DAMPER BLADE WHERE REQUIRED PER MANUFACTURER. DAMPER INSTALLATION AND APPLICATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND APPROVAL
- 5. SEE UL LISTING OF FLOOR/CEILING ASSEMBLY FOR CRD BOOT/PLENUM BOX REQUIREMENTS SUCH AS MATERIAL, MAXIMUM DIMENSIONS, ETC. 6. THIS DETAIL IS ALSO APPLICABLE FOR SITUATIONS WHERE THERE IS NO FLOOR ABOVE, SUCH AS WHEN THE CRD IS LOCATED IN AN ATTIC. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL DETAILS REGARDING THE GRILLE AND CRD AT THE CEILING
- 8. DAMPER INSTALLATION AND APPLICATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND APPROVAL

UL ASSEMBLIES SHOWN ON ARCHITECTURAL DRAWINGS ARE L521 AND P522. THE ONLY UL LISTED CRDS FOR THESE ASSEMBLIES ARE: C&S AIR PRODUCTS MODEL RD-521 OR RD521-BT

POTTORFF MODEL CFD-521 OR CFD-521-BT ANY SUBSTITUTION NEEDS TO BE DISCUSSED AND APPROVED BY ARCHITECT, LOCAL JURISDICTION AND ENGINEER BEFORE SUBMITTA

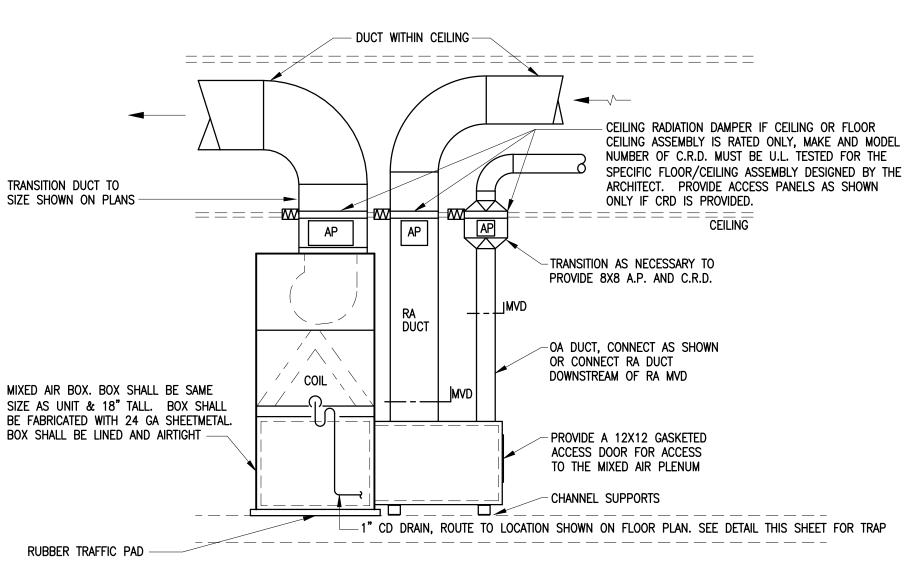
#### CEILING RADIATION DAMPER (CRD) DETAIL SCHEMATIC: NO SCALE



CEILING ACCESS PANEL. AP SHALL BE A MINIMUM OF 2" LARGER THAN DUCT ACCESS PANEL. MINIMUM 12X12. OMIT IF ACCESSABLE CEILING IS USED. PANEL SHALL MATCH THE RATING OF THE CEILING - SEE ARCH DWGS FOR CEILING RATING

- NOTES SLEEVE SHEET METAL GAUGE MUST BE EQUAL TO OR GREATER THAN THE
- DUCT CONNECTING TO IT. PROVIDE A BREAKAWAY CONNECTION AS LISTED IN THE MANUFACTURER'S
- INSTALLATION INSTRUCTIONS. MOUNTING/RETAINING ANGLES (ANGLE IRON) MUST OVERLAP THE WALL A
- MINIMUM OF 1". FD'S SHALL MEET THE REQUIREMENTS OF UL555.
- FD SHALL BE EQUAL TO NAILOR 0220, RUSKIN IBD2 OR EQUAL. FUSIBLE LINK (UL LISTED) 212°. LOCATE ACCESS PANEL (AP) TO COORDINATE WITH WALL OR CEILING ACCESS
- PANEL WHICH SHALL BE 2" LARGER THAN DUCT AP AND SPECIFIED BY
- MOUNTING ANGLES SHALL BE AS SPECIFIED BY MANUFACTURER. INSTALL FD PER MANUFACTURER'S INSTRUCTIONS

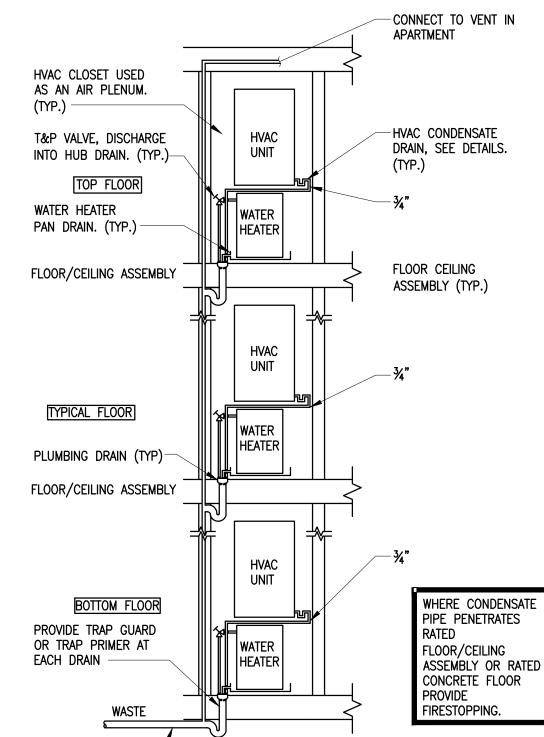
#### VERTICAL FIRE DAMPER DETAIL SCHEMATIC - NO SCALE



DUCT CONFIGURATION SHOWN IS GENERAL. CONFIGURE DUCT AS NEEDED TO ACCOMMODATE SPACE PROVIDED. IF RADIUS ELBOW CANNOT BE USED THEN PROVIDE RECTANGULAR ELBOW WITH TURNING VANES, LINE SUPPLY DUCT FIRST 10 FEET FROM UNIT.

SUPPLY DUCT DISCHARGE ELBOW SHALL TURN IN THE DIRECTION OF FAN ROTATION. DO NOT BLOCK FILTER PULL WITH CONDENSATE DRAIN PIPE. IN LIEU IF A RADIUS ELBOW ON SUPPLY A SQUARE ELBOW WITH TURNING VANES MAY BE PROVIDED. PROVIDE RADIUS ELBOWS ON RETURN AND OUTSIDE AIR DUCTS.

DUCT CAN BE FIBERGLASS DUCTBOARD IN LIEU OF SHEET METAL AMENITY VERTICAL FCU DETAIL (CEILING RETURN) SCHEMATIC - NO SCALE



SEE PLUMBING PLANS / FOR CONTINUATION -

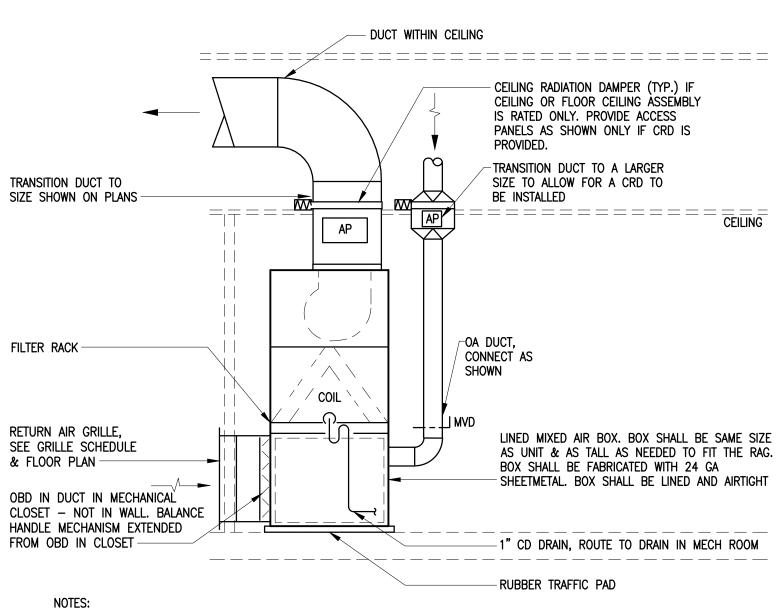
1. THE NUMBER OF FLOORS MAY VARY FROM WHAT IS SHOWN. DIAGRAM SHOULD BE CONSIDERED SCHEMATIC AND ADJUSTMENTS IN THE FIELD

- MAY BE REQUIRED. 2. THE CONDENSATE PIPING FROM THE FAN COIL UNITS WILL BE
- PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. 3. WATER HEATER RELATED PIPING WILL BE PROVIDED AND INSTALLED
- BY THE PLUMBING CONTRACTOR. 4. FLOOR DRAIN AT LOWER LEVEL PROVIDED BY THE PLUMBING
- NOTES APPLY TO CONDENSATE RISERS:

CONTRACTOR.

- 1. SEE GENERAL NOTES ON SHEET MO.1 FOR PIPING MATERIAL.
- 2. SEE PLUMBING FOR ADDITIONAL COORDINATION REQUIREMENTS

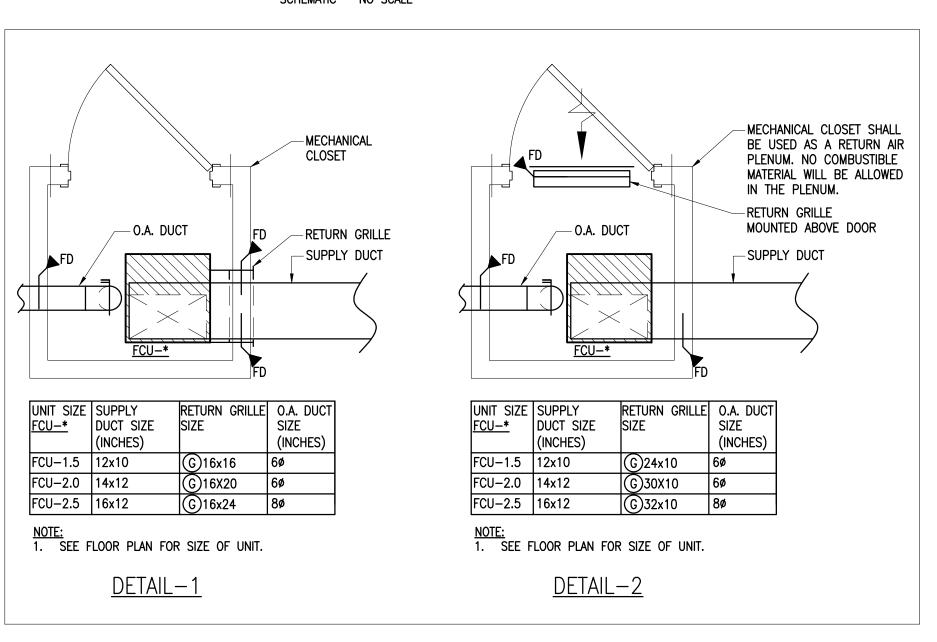
# TYPICAL CONDENSATE RISER



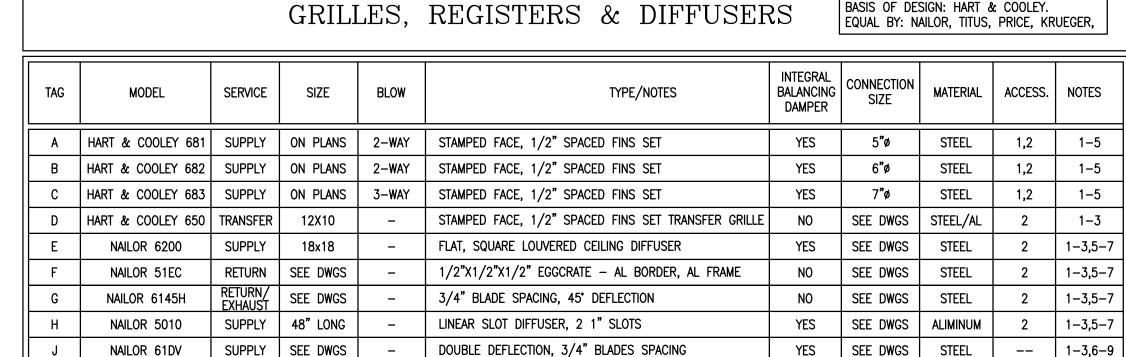
DUCT CONFIGURATION SHOWN IS GENERAL. CONFIGURE DUCT AS NEEDED TO ACCOMMODATE SPACE PROVIDED. IF RADIUS ELBOW CANNOT BE USED THEN PROVIDE RECTANGULAR ELBOW WITH TURNING VANES, LINE SUPPLY DUCT FIRST 10 FEET FROM UNIT.

DO NOT BLOCK FILTER PULL WITH CONDENSATE DRAIN PIPE. CORRIDOR FCU DETAIL (SIDEWALL R.A.G.) SCHEMATIC - NO SCALE

SUPPLY DUCT DISCHARGE ELBOW SHALL TURN IN THE DIRECTION OF FAN ROTATION.



TYPICAL CORRIDOR FCU DETAIL SCHEMATIC - 1/2" = 1'-0"



1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND SUSPENSION SYSTEM. 2. COLOR SELECTED BY ARCHITECT; SUBMIT FINISH CHART WITH SHOP DRAWINGS.

3. DIFFUSERS SHALL HAVE A BAKED ENAMEL FINISH.

NAILOR 61DV | SUPPLY | SEE DWGS

CEILING RADIATION DAMPER IN PLENUM BEHIND GRILLE. 4. PROVIDE BLOW PATTERNS AS INDICATED ON PLANS. 5. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE. 3. PROVIDE SQUARE/RECTANGULAR TO ROUND TRANSITION WHERE INDICATED ON DRAWINGS. SEE PLANS FOR COLLAR SIZE 7. DIFFUSER SHALL NOT HAVE AN NC RATING GREATER THAN 30 AT THE CFM INDICATED ON THE FLOOR PLANS. STATIC

PRESSURE DROP SHALL NOT BE GREATER THAN 0.10" AT THE CFM INDICATED. 8. PROVIDE MODEL AND MANUFACTURER SHOWN. ONLY APPROVED EQUALS. 9. REGISTER SHALL BE CAPABLE OF THROWING THE SPECIFIED CFM (ON FLOOR PLAN) 22 FT. PROVIDE PERFORMANCE IN

WALL LOUVERS (ALL NOTES APPLY)

1. MULTI-SHUTTER VALVE WITH INTERLOCKING LOUVERS.

2. IF GRILLE IS INSTALLED IN A RATED CEILING THEN PROVIDE A

DUTY DP @ ACCESSORIES MAKE & MODEL CFM SIZE AREA. 1600 FPM I ON PLANS | 12X12 | 0.26 | STATIONARY FORMED LOUVER | INTAKE | 0.07" WL-A RUSKIN ELF375DX | EXHAUST | 0.07" WL-B RUSKIN ELF375DX ON PLANS | 18X12 | 0.41 STATIONARY FORMED LOUVER ON PLANS 24X12 0.82 STATIONARY FORMED LOUVER EXHAUST 0.07" WL-C RUSKIN ELF375DX STATIONARY FORMED LOUVER | INTAKE | 0.07" | 1,2 WL-P RUSKIN ELF375DX 220 | 18X12 | 0.41 |

1. LOUVERS SHALL BE CAPABLE OF WITHSTANDING A WIND LOAD OF 20 LBS PER SQ FT.

2. UNIT SHALL BE MADE OF ALUMINUM WITH AN ALLOY. 3. SCREENS SHALL BE CONTAINED WITHIN A REMOVABLE FRAME

4. UNIT SHALL BE AMCA LICENSED 5. LOUVER SHALL HAVE A BAKED ENAMEL PAINTED FINISH -

1. BIRDSCREEN 2. MOTOR OPERATED DAMPER INTERLOCKED WITH EXHAUST FAN. DAMPER SHALL BE OPEN

COLOR SELECTION BY ARCHITECT AT TIME OF SHOP DRAWINGS

WHEN FAN IS ENERGIZED. BASIS OF DESIGN: AS NOTED; EQUAL BY: GREENHECK, ARROW

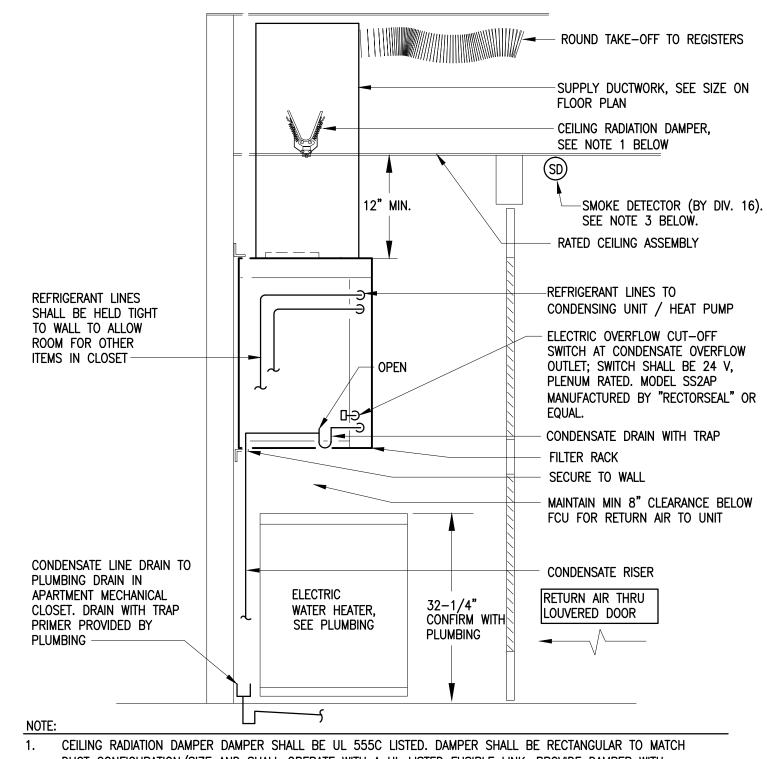
BASIS OF DESIGN: HART & COOLEY.

### DUCT INSULATION - SHEET METAL DUCT 10

DUCT LOCATION	INSULATION TYPE	NOTES
CEILING/SOFFIT	R VALUE = 6.0	3
ATTIC	R VALUE = 8.0	3
ATTIC	R VALUE = 8.0	3
CEILING/SOFFIT	NONE	
ATTIC	NONE	
CEILING/SOFFIT	R VALUE = $6.0$	3
	2	
ANYWHERE	NONE	
FLOOR/CEILING ASSEMBLY	SEE NOTE # 44 ON THIS SHEET	4
	CEILING/SOFFIT  ATTIC  CEILING/SOFFIT  ATTIC  CEILING/SOFFIT   ANYWHERE	CEILING/SOFFIT R VALUE = 6.0  ATTIC R VALUE = 8.0  ATTIC R VALUE = 8.0  CEILING/SOFFIT NONE  ATTIC NONE  CEILING/SOFFIT R VALUE = 6.0  ②  ANYWHERE NONE

1) DUCT INSULATION CHARACTERISTICS SHALL BE AS NOTED IN GENERAL NOTES (2) INSULATION IS NOT REQUIRED IN ADDITION TO THE BUILT IN INSULATION ASSOCIATED WITH DUCTBOARD

③ INSULATION THICKNESS AND DENSITY CAN VARY. R VALUES MUST BE MET. 4) ALL DRYER VENT WITHIN THE RATED FLOOR/CEILING ASSEMBLY OR AT ATTIC/CEILING ASSEMBLY



DUCT CONFIGURATION/SIZE AND SHALL OPERATE WITH A UL LISTED FUSIBLE LINK. PROVIDE DAMPER WITH INSULATION (UL LISTED) ON BACKSIDE OF DAMPER BLADE WHERE REQUIRED PER MANUFACTURER. DAMPER INSTALLATION AND APPLICATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND APPROVAL. SEE CRD DETAIL ON THIS SHEET FOR ADDITIONAL REQUIREMENTS. BASIS OF DESIGN NAILOR MODEL 0716. LOUVERED DOOR SHALL BE NON-COMBUSTIBLE AND HAVE A MINIMUM 1.5 SQ. FT. FREE AREA, SEE ARCH. THE FCU IS INTERCONNECTED TO AN AREA SMOKE DETECTOR PROVIDED. FCU SHALL SHUT DOWN WHEN SMOKE DETECTOR SENSES SMOKE. COORDINATE WITH ELECTRICAL.

APARTMENT FCU DETAIL

SCHEMATIC - NO SCALE

THE PRESTON PARTNERSHIP, LLC A MULTI-DISCIPLINARY DESIGN FIRM

115 PERIMETER CENTER PLACE, SUITE 950 ATLANTA, GEORGIA 30346 TELEPHONE: 770 396 7248 FAX: 770 396 2945

SOUTH TERRACES

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REVEL AT THE **BALLPARK** PHASE II

2885 CRESCENT PKWY

SMYRNA, GA 30080

| ATLANTIC | REALTY | PARTNERS

ATLANTIC REALTY **PARTNERS** 

3438 PEACHTREE ROAD **SUITE 1425** ATLANTA, GA 30326

ISSUES & #\\_- REVISIONS \_\_\_\_ **CONCEPTUAL DESIGN** SD PROGRESS SET 09/28/15 10/14/15 GMP PRICING SET 12/07/15 FOUNDATION PACKAGE GMP PACKAGE PERMIT SET

05/22/2017 1493101

**DETAILS - HVAC** 

M0-02

COMMENTS

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