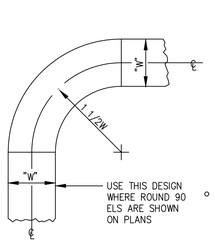
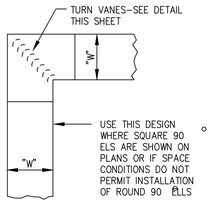
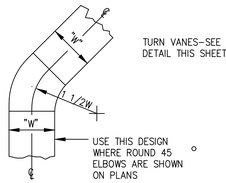


ROUND 90 ELBOW

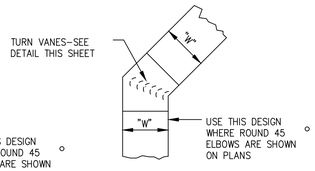


SQUARE 90 ELBOW

CONSTRUCTION OF 90 ELBOWS

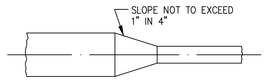


ROUND 45 ELBOW

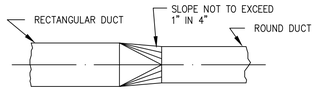


SQUARE 45 ELBOW

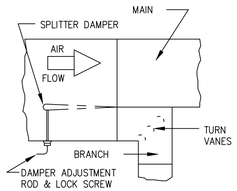
CONSTRUCTION OF 45 ELBOWS



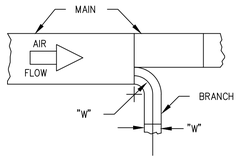
TYPICAL RECTANGULAR TRANSITION



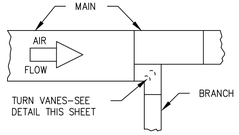
TYPICAL RECTANGULAR TO ROUND TRANSITION



TYPICAL SPLITTER DAMPER

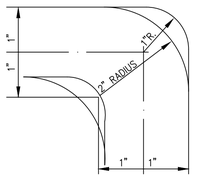


ROUND BRANCH TAKEOFF

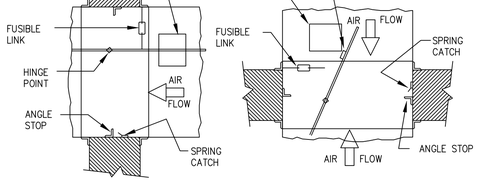


SQUARE BRANCH TAKEOFF

CONSTRUCTION OF BRANCH TAKEOFFS FROM MAIN

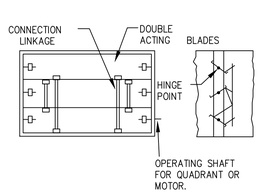


DETAIL OF TURN VANES



HORIZONTAL VERTICAL

TYPICAL FIRE DAMPER



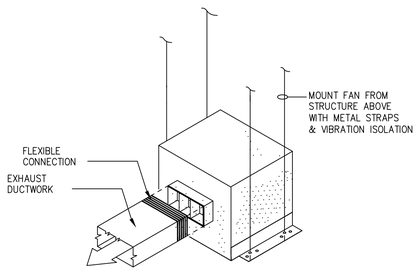
TYPICAL VOLUME DAMPER

INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

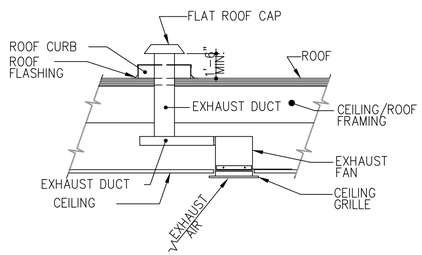
DETAILS OF THE LOW VELOCITY DUCT LAYOUT 01

SCALE: NONE



CEILING EXHAUST FAN 04

SCALE: NONE



CEILING EXHAUST FAN 05

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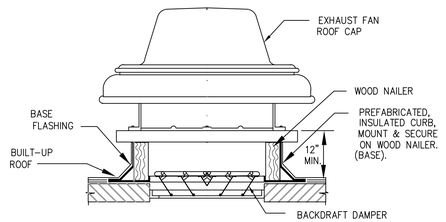
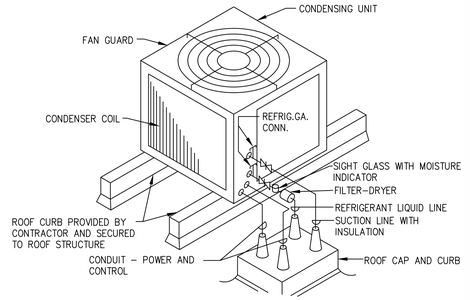


EXHAUST FAN ROOF CAP 06

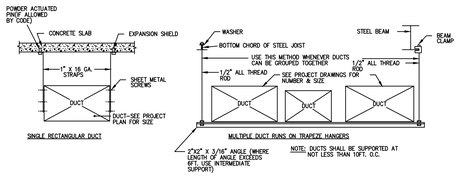
SCALE: NONE

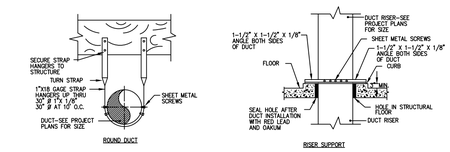
NOTE: ROOF CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND ALL FLASHING AND ROOFING TO BE PERFORMED BY CERTIFIED ROOFING CONTRACTOR. UNIT TO BE SECURED TO CURB USING INTEGRAL ATTACHMENT POINTS ON BOTTOM OF UNIT.



ROOFTOP CONDENSING UNIT 02

SCALE: NONE





DUCT HANGERS AND SUPPORTS DETAIL 03

SCALE: NONE

SLI DESIGN, INC.
ARCHITECTURE PLANNING INTERIOR DESIGN
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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Gulf Coast Educators FEDERAL CREDIT UNION

9001 Spencer Highway
Deer Park, Texas 77571
Suites B & C

E/B/E Project Number : 26081

ISSUED	DATE
ISSUED FOR CLIENT APPROVAL	06/24/2026
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

REVISIONS

MARK	DESCRIPTION	DATE
	50% REVIEW SET	05/19/2026
	90% REVIEW SET	06/12/2026
	FINAL REVIEW SET	07/02/2026
	PERMIT SET	07/13/2026

JOSE M. GUERRERO
No. 154536
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
7/13/2026

DRAWING TITLE
MECHANICAL DETAILS

SHEET NO.
M-3.00

E/B/E CONSULTING ENGINEERS Mechanical Electrical Plumbing
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

DESIGN TEAM

P.M.:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
PLUMBING:	CC
CHECKED-BY:	JG

P:\26081GULFCOASTEDFCUDEERPARKTX\Arch\2026-05-07 Handoff\GCEFCU - Deer Park - detached for consultant.rvt