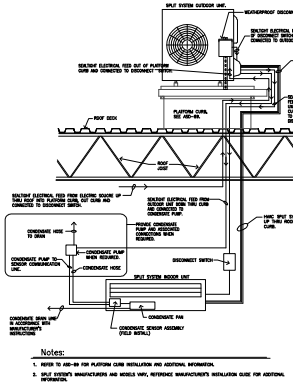


Notes:
1. REFER TO ASE-99 FOR PLATFORM CURB INSTALLATION AND ADDITIONAL INFORMATION.
2. SPLIT SYSTEM'S MANUFACTURERS AND MODELS VARY, REFERENCE MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.

HVAC SPLIT SYSTEM DIAGRAM

10/11/12
ZAW
HSD-11

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(K)	KEY NOTE TAG
(#)	NOTE SPECIFIC TO DETAIL TAG
(#)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR AND OUTSIDE AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
	SMOKE DAMPER (VERTICAL)
	SMOKE DAMPER (HORIZONTAL)
	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
AIR DEVICES	
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
22X12	RETURN AIR OPENING ABOVE CEILING

DUCTLESS MINI SPLIT DX UNIT (INDOOR)

MARK	INDOOR AIR FAN: SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	COOLING: AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM SEER	NUMBER OF STAGES	ACCESSORY ELECTRIC HEATING: ENTERING AIR TEMP. (°F)	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHARAC.	REMARKS
DFCU-1	425	0	0.10	0.33 F/A	208/1/60	80.0	67.0	12,000	--	20.8	MOD	NO ACCESSORY HEATING					1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDED LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASINGS MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET THE TOTAL PRESSURE LOSS. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
2. MINIMUM RECOMMENDED CLEARANCE AROUND FAN COIL UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. REFERENCE SPECIFICATIONS FOR OPTIONS, CONTROLS, AND ACCESSORIES REQUIRED.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
3. WALL MOUNTED DUCTLESS SPLIT SYSTEM BASED ON MITSUBISHI P-SERIES.
4. PROVIDE WITH LOCKING MOUNT KIT.
5. PROVIDE WITH CONDENSATE PUMP. PUMP REQUIRES A SEPARATE 230V POWER SOURCE.
6. PROVIDE WITH WALL MOUNTED THERMOSTAT.

DUCTLESS MINI SPLIT DX UNIT (OUTDOOR)

MARK	COOLING: MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP. (°F)	MINIMUM SEER	NUMBER OF STAGES	HEATING: MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP. (°F)	HSPF	NUMBER OF STAGES	CURRENT CHARAC.	RELATED UNIT MARK	BASIS OF DESIGN: MANUFACTURER	MODEL	MCA/ MOCP	WEIGHT (LBS)	REMARKS
DCU-1	12,000	105	20.8	MOD	11,100	17.0	10.2	MOD	208/1/60	DFCU-1	MITSUBISHI	PUZ-A12NK	11.0/28.0	211	1,2,3

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND CONDENSING UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDESER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HAIL GUARDS.
2. PROVIDE WITH LOW AMBIENT CONTROLLER, CRANKCASE HEATER AND WIND BAFFLES.
3. PROVIDE HEAT PUMP UNIT.

FIRE DETECTION AND ALARM NOTE:

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL XI, IN THE SUB FIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS. FURNISH AND INSTALL ALL REQUIRED FIRE ALARM DEVICES, AS REQUIRED BY CODE. EXTEND ZONE AND TIE TO EXISTING BUILDING FIRE ALARM CONTROL PANEL. VERIFY EXACT REQUIREMENTS IN THE FIELD. COORDINATE ALL LOCATIONS WITH DRAWINGS APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO LANDLORD PANEL TO ACCOMMODATE NEW TENANT WORK. CONTRACTOR SHALL OBTAIN THE SERVICES OF THE BUILDING'S FIRE ALARM CONTRACTOR TO PROVIDE ALL WORK ASSOCIATED WITH FIRE ALARM SYSTEM. ALL WORK SHALL BE INCLUDED WITHIN BASE BID.

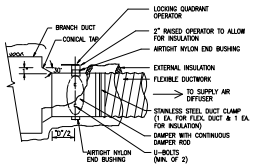
CONTRACTOR NOTES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

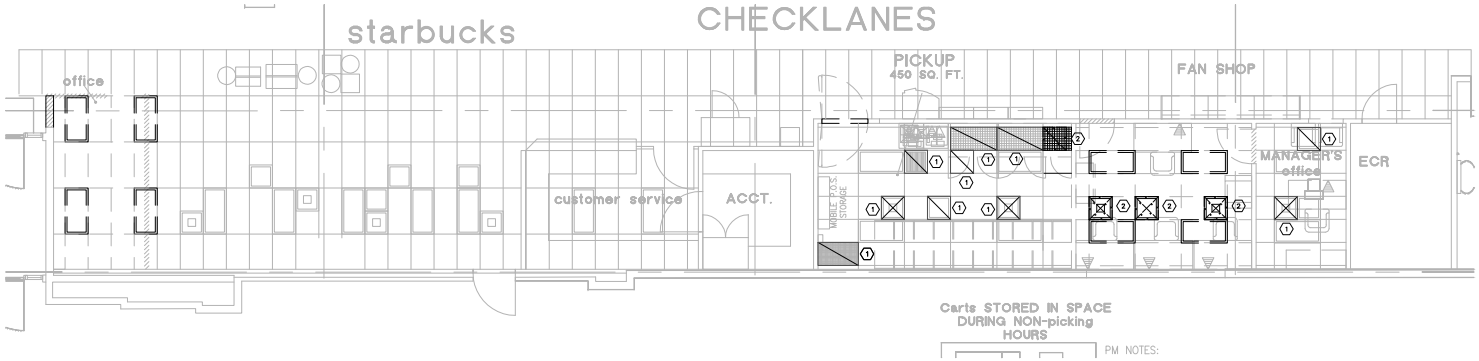
CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE PROPOSAL SHALL INCLUDE MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ACCEPTED.

HVAC KEYED NOTES

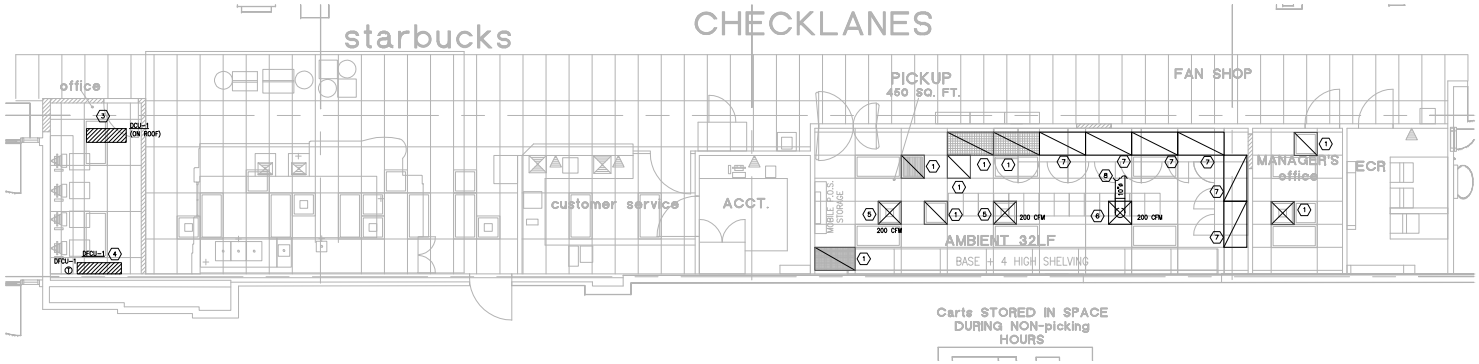
1. EXISTING DIFFUSER/GRILLE TO REMAIN.
2. EXISTING DIFFUSER/GRILLE TO BE REMOVED. REMOVE EXISTING SUPPLY BRANCH BACK TO MAIN TRUNK AND CAP.
3. CONDENSER LOCATED ON ROOF. COORDINATE EXACT LOCATION WITH EXISTING ROOFTOP EQUIPMENT.
4. ROUTE 3/4" CONDENSATE LINE TO NEAREST APPROVED RECEPTACLE. PROVIDE ACCESSORY CONDENSATE PUMP. ROUTE REFRIGERANT PIPING CONCEALED WITHIN WALL AND ABOVE CEILING TO CONDENSING UNIT ON ROOF. LOW VOLTAGE FROM UNIT TO THERMOSTAT SHALL BE IN CONDUIT AND CONCEALED WITHIN WALL.
5. REBALANCE EXISTING DIFFUSER AS SHOWN. REBALANCE SURROUNDING SALES FLOOR DIFFUSERS AS NECESSARY TO ACHIEVE AIRFLOW SHOWN.
6. NEW DIFFUSER AT THIS LOCATION. REBALANCE SURROUNDING SALES FLOOR DIFFUSERS AS NECESSARY TO ACHIEVE AIRFLOW SHOWN. DIFFUSER TYPE TO MATCH EXISTING DIFFUSER IN SPACE.
7. NEW 2'X4' EGGCRATE RETURN GRILLE OVER REACH IN COOLER/FREEZER. EGGCRATE RETURN GRILLE TYPE TO MATCH EXISTING RETURN GRILLE OVER REACH IN COOLER/FREEZER IN SPACE.
8. CONNECT NEW 10"ø DUCT TO NEAREST EXISTING SUPPLY TRUNK DUCT.



3 FLEXIBLE DUCT TAP - CONICAL
SCALE = NONE



2 DEMOLITION PLAN
1/4" = 1'-0"



1 MECHANICAL PLAN
1/4" = 1'-0"

Kroger

Issue	Date
90% OWNER REVIEW SET	09.30.21
PERMIT / BID ISSUE SET	11.04.21

SALASO'BRIEN
100 Decker Drive, Suite 300
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972.915.2270 | Registration No. F-9311
KCRE Project No. 2021-42468

11/04/21

Heights Venture ARCHITECTURE DESIGN
HOUSTON
1111 North Loop West, Suite 800
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713 868 1100 V
DALLAS
8741 Legacy Drive, Suite 130
Plano, Texas 75024
972 490 7090 V

KROGER FOOD STORE # 520
MINOR CAPITAL REMODEL (PICK-UP)

3120 S. UNIVERSITY DRIVE
FORT WORTH, TX 76109

Project Number, Phase: 21181-001	Sheet Size: 34x44
Date/Time Plotted:	
Drawn By:	Checked By:
Project Phase:	

MECHANICAL PLAN

M1.1

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