

D2 METAL FLASHING PHOTO
NTS

SHEET KEYNOTES

1. REMOVE THE EXISTING GAS FIRED DX COOLING ROOFTOP UNIT & REPLACE WITH NEW ROOFTOP UNIT, CURBS TO REMAIN. EXISTING ROOFTOP UNIT IS AS FOLLOWS:
LENNOX MODEL C6916-135S-270-67
10 TONS COOLING
270,000 HIGH BTUH INPUT HEAT
170,000 LOW BTUH INPUT HEAT
LENNOX - REM1016M-135 ECONOMIZER
ELECTRICAL: 208/240/3/60/55MCA
EXISTING NAME PLATE DATA READS AS FOLLOWS:
4,000 CFM
0.8" STATIC PRESSURE
BUILDING HEAT & COOL
2. EXISTING ELECTRICAL DISCONNECT LOCATION ON ROOFTOP UNIT BEING REMOVED. CONNECT NEW ROOFTOP UNIT TO (E) ELECTRICAL SERVICE PER NEC.
3. PRIOR TO REMOVING THE EXISTING ROOFTOP UNIT, THE CONTRACTOR SHALL TAKE CROSSFLOW MEASUREMENTS OF THE EXISTING SUPPLY AIRFLOW & MINIMUM OUTSIDE AIR FLOWS SO THAT THE NEW ROOFTOP UNITS MAY BE BALANCED TO THE (E) AIRFLOWS. THE CONTRACTOR PERFORMING THE AIRFLOW MEASUREMENTS SHALL BE NEBB CERTIFIED.
4. EXISTING SUPPLY & RETURN AIR OPENING THRU ROOF TO REMAIN. REPLACEMENT ROOFTOP SHALL BE EQUIPPED WITH A CURB ADAPTOR FOR CONNECTION TO SUPPLY AND RETURN DUCTS.
5. REMOVE EXISTING 3/4" GAS LINE ON ROOF AS NECESSARY FOR CONNECTION TO NEW ROOFTOP UNIT.
6. CONNECT TO (E) GAS LINE THRU ROOF & EXTEND & CONNECT TO ROOFTOP UNIT PER DETAIL D1/AE501 & D3/AE501.

SHEET KEYNOTES CONTINUED

7. ROOFTOP UNIT CLEARANCES.
8. INSTALL NEW ROOFTOP UNIT ON EXISTING ROOF CURB. BALANCE SUPPLY & OUTSIDE AIRFLOWS TO EXISTING. SEE KEYED NOTE 3 THIS SHEET.

GENERAL ROOFING NOTES

1. REMOVE THE EXISTING TWO LAYERS OF SINGLE-PLY ROOF MEMBRANE & 3/8" FANFOLD SEPARATION SHEET, FLASHINGS, SHEET METAL CAPS, COPINGS, COUNTER-FLASHING & TRIM.
2. FIELD VERIFY ALL EXISTING ROOF RELATED DIMENSIONS AND CONDITIONS WHERE WORK IS TO BE PERFORMED PRIOR TO BIDDING; THIS INCLUDES EXISTING ROOF DECK SLOPES AND ELEVATIONS.
3. ROOF RELATED DIMENSIONS MIGHT VARY SOMEWHAT FOR ALL TYPICAL CONDITIONS FROM THOSE SHOWN ON DETAIL DRAWINGS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS NECESSARY TO MAKE MINOR ADJUSTMENTS TO ALL FIELD CONDITIONS THAT CAN BE VERIFIED PRIOR TO BIDDING.
4. HEIGHT OF ALL CURBS, WALL, PIPE AND OTHER ROOF PENETRATION FLASHINGS SHALL BE MINIMUM OF EIGHT (8") INCHES ABOVE THE FINISHED ROOF MEMBRANE UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIFICATIONS.
5. ALL ROOF DRAINS ARE TO REMAIN, REPAINT THE GRATES.
6. PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO ADJOINING ROOF SECTIONS, AS WELL AS TO PREVENT DAMAGE TO THE BUILDING AND GROUNDS.
7. ALL FASTENERS, EXCEPT FASTENERS USED FOR INSULATION, SHALL BE SPACED AT A MAXIMUM EIGHT (8") INCHES O.C. UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.
8. DO NOT STACK ROOFING MATERIALS OR OTHER EXCESSIVE LOADS ON THE ROOF.
9. ALL SHEET METAL JOINTS AND LAPS SHALL BE BOLTERED OR WELDED UNLESS THEY ARE COUNTERFLASHED OR ARE KYNAR COATED METAL, OR ARE OTHERWISE NOTED IN THE SPECIFICATIONS.
10. CLEAN UP AND REMOVE ALL DEBRIS AND REFUSE FROM THE JOBSITE DAILY.
11. PROVIDE PROPER STORAGE AND PROTECTION AT JOBSITE FOR ALL EQUIPMENT AND MATERIALS.
12. RUN ALL CONDUIT AND UTILITY LINES UNDER ROOF INSULATION AND THRU CURB WALLS WHERE FEASIBLE.
13. REPLACE ALL RUSTED OR DAMAGED VENTS, CAPS, PIPES AND DUCTS.

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OGDEN STATE LIQUOR STORE #19 -ROOFING IMPROVEMENTS

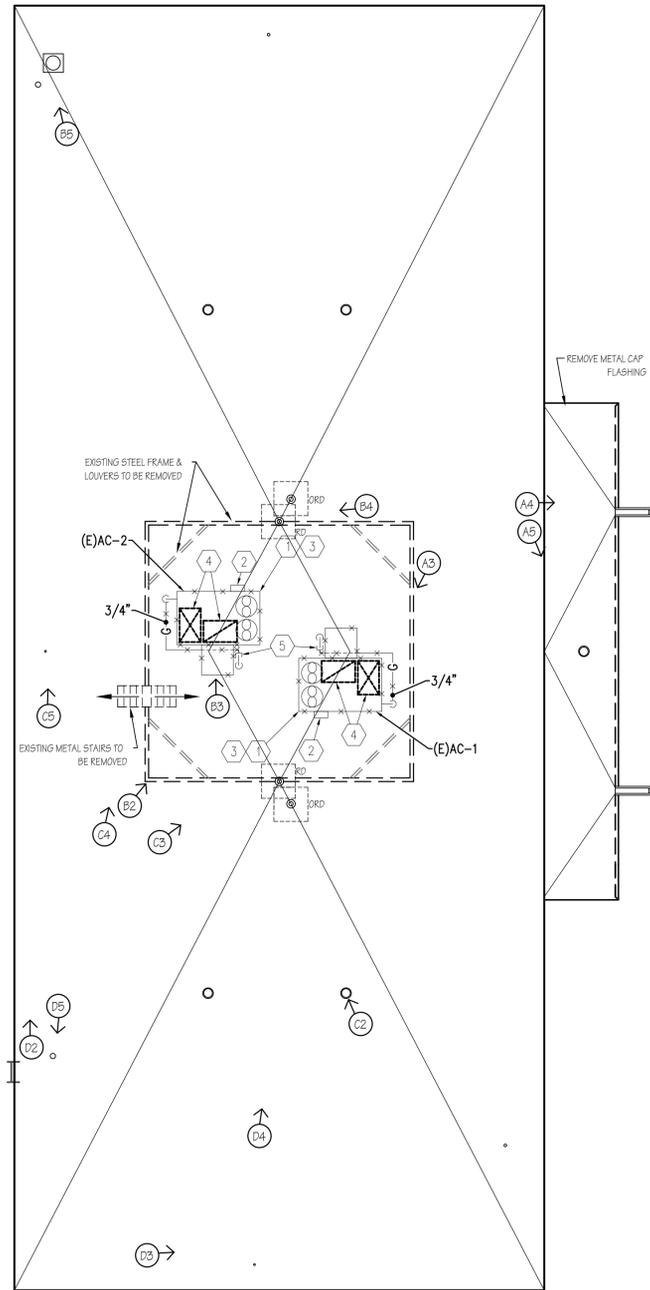
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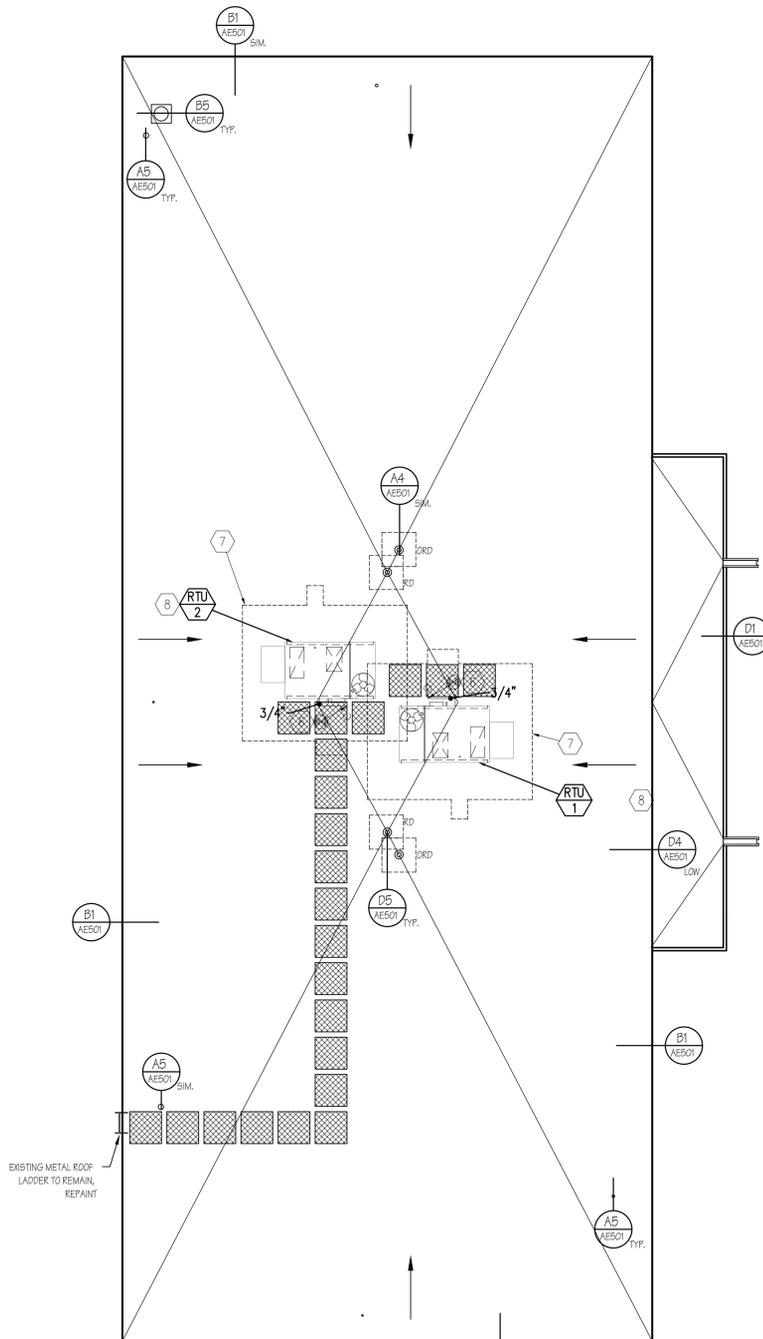
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ROOF PLANS

AE101



A1 MECHANICAL DEMOLITION PLAN
1/8"=1'-0"



A3 ROOF PLAN
1/8"=1'-0"

SYMBOLS LEGEND

- EXIST. ROOF VENTS
- EXIST. ROOF DRAIN
- EXIST. OVERFLOW ROOF DRAIN
- EXIST. ROOF VENT TO BE REMOVED
- NEW FLEXIBLE WALK PADS
- EXISTING MECHANICAL UNIT TO REMAIN, RAISE CURB AS REQ'D.
- PHOTOGRAPH CALL-OUT REFERENCE
- DETAIL SHEET
- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- NATURAL GAS
- POINT OF CONNECTION
- EQUIPMENT IDENTIFICATION
- KEYED NOTE IDENTIFICATION

PACKAGED ROOFTOP UNIT SCHEDULE

ID	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY FAN				HEATING SECTION				COOLING SECTION				ELECTRICAL				DIMENSIONS (W x L x H)	MAX WEIGHT (LBS)	NOTES		
				AIRFLOW RATE (CFM) (11)	MAX OUTSIDE AIRFLOW (CFM) (11)	EXT STATIC PRESSURE SUPPLY (IN. W.G.)	EXT STATIC PRESSURE RETURN (IN. W.G.)	NAT GAS INPUT (MBH) (12)	NAT GAS OUTPUT (MBH) (1)	ENTERING AIR TEMP. (°F)	LEAVING AIR TEMP. (°F)	COOLING		ENTERING AIR TEMP. DB/WB (°F)	LEAVING AIR TEMP. DB/WB (°F)	EFFICIENCY (4)	REFRIGERANT	TOTAL MCA (13)	SUPPLY FAN MOTOR (HP)				RELIEF FAN MOTOR (HP)	SINGLE POINT VOLT/PH/Hz
												SENSIBLE MBH	TOTAL MBH											
RTU-1	CARRIER	48PGM12-D-5-BP	10	4000	700	0.5	0.35	249	164.14	58.9	103.5	92.49	114.66	80/63.5	54.7/53.2	11.0 EER	R-410A	53.7	3	2	208/3/60	58 x 97 x 51	1324	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)
RTU-2	CARRIER	48PGM12-D-5-BP	10	4000	700	0.5	0.35	249	164.14	58.9	103.5	92.49	114.66	80/63.5	54.7/53.2	11.0 EER	R-410A	53.7	3	2	208/3/60	58 x 97 x 51	1324	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)

- (1) ALL CONDITIONS BASED AT 4,400 FT. ELEVATION.
- (2) CAPACITIES BASED AT 94°F/65°F WB AMBIENT AND 72°F / 50% RH INDOOR AIRSPACE.
- (3) CAPACITIES BASED AT -3°F AMBIENT AND 72°F INDOOR.
- (4) EFFICIENCY LISTED IS THE MINIMUM EFFICIENCY REQUIRED BY THE STATE. ANY ALTERNATE ROOFTOP UNIT WITH LOWER THAN SPECIFIED EFFICIENCY WILL NOT BE APPROVED.
- (5) TXV OPTION, FIELD INSTALLED OVERSIZED MOTOR, CRANKCASE HEATER.
- (6) UNIT COMPLETE WITH SPRING VIBRATION ISOLATION ROOF CURB AND CURB ADAPTOR FOR INSTALLATION ON LENNOX MODEL GSC16-1353 ROOF CURB.
- (7) COMPLETE WITH MICRO-METL MODEL PCDH-PG1012 100% ECONOMIZER & 100% CENTRIFUGAL MODULATING POWER EXHAUST AND SINGLE POINT POWER CONNECTION TO RTU & ECONOMIZER.
- (8) FACTORY MOUNTED STARTER & DISCONNECT.
- (9) PROVIDE AND INSTALL EZ TRAP MODEL EZT-150 WATERLESS CONDENSATE TRAP FOR PRESSURE BLOW THRU SYSTEMS.
- (10) PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKING COVER. THERMOSTAT SHALL BE CAPABLE OF MODULATING OUTSIDE AIR DAMPER CLOSED DURING UNOCCUPIED CONDITIONS. REPLACE EXISTING THERMOSTAT WITH NEW. RUN ALL WIRES NECESSARY FOR NEW ROOFTOP UNIT CONTROL. FIELD VERIFY EXISTING THERMOSTAT LOCATION.
- (11) AIRFLOWS GIVEN TO REPRESENT PERFORMANCE CONDITIONS. ACTUAL SUPPLY AND OUTSIDE AIRFLOWS TO BE DETERMINED BY THE CONTRACTOR. OUTSIDE-TO-SUPPLY AIR RATIO IS THE MAXIMUM POSSIBLE. IF THE OUTDOOR AIFLOW-TO-SUPPLY AIRFLOW RATIO IS HIGHER THAN SPECIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- (12) 2-STAGE HEAT. 249 MBH HIGH INPUT; 174 MBH LOW INPUT.
- (13) EXISTING ROOFTOP UNIT MCA IS 55. NEW ROOFTOP UNIT MAY NOT EXCEED EXISTING ROOFTOP UNIT POWER REQUIREMENTS.



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MECHANICAL SCHEDULES

AE602

SHEET 5 OF 6



D2 EXISTING CONDITIONS
N.T.S.



D3 EXISTING CONDITIONS
N.T.S.



D4 EXISTING CONDITIONS
N.T.S.



D5 EXISTING CONDITIONS
N.T.S.



C2 EXISTING CONDITIONS
N.T.S.



C3 EXISTING CONDITIONS
N.T.S.



C4 EXISTING CONDITIONS
N.T.S.



C5 EXISTING CONDITIONS
N.T.S.



B2 EXISTING CONDITIONS
N.T.S.



B3 EXISTING CONDITIONS
N.T.S.



B4 EXISTING CONDITIONS
N.T.S.



B5 EXISTING CONDITIONS
N.T.S.



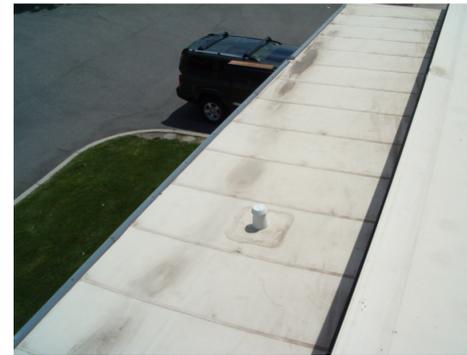
A2 EXISTING CONDITIONS
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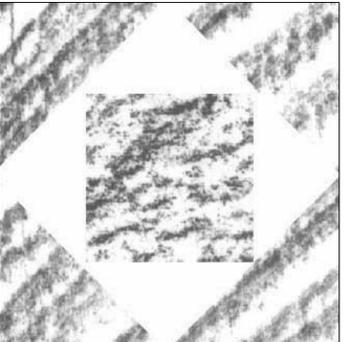
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EXISTING CONDITIONS

AE901
SHEET 6 OF 6